



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 165519

TO: Nita M Minnifield
Location: REM-3C01/3C18
Art Unit: 1645
Tuesday, April 18, 2006
Case Serial Number: 09/818918

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: (571)272-2523

toby.port@uspto.gov

Search Notes

Dear Examiner Minnifield,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2523

*Reviewed
4/18/06
mm*

This Page Blank (uspto)

STIC-Biotech/ChemLib

185519

From: Chan, Christina
Sent: Monday, April 17, 2006 8:46 AM
To: Minnifield, Nita; STIC-Biotech/ChemLib
Subject: RE: rush sequence search request

Please rush. Thanks Chris

Chris Chan
TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

RECEIVED
APR 17 2006
STIC

-----Original Message-----

From: Minnifield, Nita
Sent: Sunday, April 16, 2006 8:06 PM
To: Chan, Christina
Subject: rush sequence search request

Christina, please approve, 2 month amdt. due.

Thanks,

STIC

09/818918

Please do an interference sequence search on SEQ ID NO: 37-40 and 42-45 of this application.

Please provide a paper copy of all results.

Thanks,
Minnifield,

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIS: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

This Page Blank (uspto)

GenCore version 5.1.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-37

Perfect score: 20
Sequence: 1 tccatgctcgctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*

2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*

5: /cgn2_6/ptodata/1/ina/H COMB.seq:*

6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*

7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*

8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*

9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	2	US-08-436-714-7
2	20	100.0	20	2	US-08-442-705-7
3	20	100.0	20	2	US-08-332-829-7
4	20	100.0	20	3	US-08-386-063-21
5	20	100.0	20	3	US-08-386-063-21
6	20	100.0	20	3	US-08-738-652-31
7	20	100.0	20	3	US-08-738-652-33
8	20	100.0	20	3	US-08-738-652-34
9	20	100.0	20	3	US-08-738-652-37
10	20	100.0	20	3	US-09-286-098-22
11	20	100.0	20	3	US-09-286-098-23
12	20	100.0	20	3	US-09-286-098-42
13	20	100.0	20	3	US-09-960-774-28
14	20	100.0	20	3	US-09-325-193A-17
15	20	100.0	20	3	US-09-325-193A-18
16	20	100.0	20	3	US-09-325-193A-35
17	20	100.0	20	3	US-09-191-170-20
18	20	100.0	20	3	US-09-191-170-22
19	20	100.0	20	3	US-09-191-170-23
20	20	100.0	20	3	US-09-337-619-28
21	20	100.0	20	3	US-09-954-987B-93
22	20	100.0	20	3	US-09-672-126B-92
23	20	100.0	25	3	US-09-396-196G-52295
24	20	100.0	25	3	US-09-396-196G-52296

c	25	20	100.0	1237	2	US-08-798-000-2	Sequence 2, Appli
c	26	20	100.0	2002	3	US-09-315-127-7	Sequence 7, Appli
c	27	20	100.0	3925	3	US-09-011-745-9	Sequence 9, Appli
c	28	20	100.0	8202	2	US-08-258-420-13	Sequence 13, Appli
	29	19	95.0	19	3	US-09-286-098-20	Sequence 20, Appli
	30	19	95.0	20	3	US-08-386-063-23	Sequence 23, Appli
	31	19	95.0	20	3	US-08-386-063-24	Sequence 24, Appli
	32	19	95.0	20	3	US-08-386-063-23	Sequence 23, Appli
	33	19	95.0	20	3	US-08-386-063-24	Sequence 24, Appli
	34	19	95.0	20	3	US-08-960-774-30	Sequence 30, Appli
	35	19	95.0	20	3	US-08-960-774-31	Sequence 31, Appli
	36	19	95.0	20	3	US-09-337-619-30	Sequence 30, Appli
	37	19	95.0	20	3	US-09-337-619-31	Sequence 31, Appli
	38	18.4	92.0	20	3	US-08-738-652-38	Sequence 38, Appli
	39	18.4	92.0	20	3	US-08-738-652-39	Sequence 39, Appli
	40	18.4	92.0	20	3	US-08-738-652-40	Sequence 40, Appli
	41	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appli
	42	18.4	92.0	20	3	US-08-738-652-42	Sequence 42, Appli
	43	18.4	92.0	20	3	US-08-738-652-43	Sequence 43, Appli
	44	18.4	92.0	20	3	US-08-738-652-43	Sequence 53, Appli
	45	18.4	92.0	20	3	US-09-030-701-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA: US/08/436,714

FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA

US-08-436-714-7

Query Match 100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCGTATGCT 20
|||||

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Db      1  TCCATGTCGGTCCTGATGCT 20

RESULT 2
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramide and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match      100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1  TCCATGTCGGTCCTGATGCT 20
      ||||||||||||||||||
Db      1  TCCATGTCGGTCCTGATGCT 20

RESULT 3
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramide and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
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; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match      100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1  TCCATGTCGGTCCTGATGCT 20
      ||||||||||||||||||
Db      1  TCCATGTCGGTCCTGATGCT 20

RESULT 4
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 608200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 TCCATGTCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 5

US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 6

US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 7

US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 8

US-08-738-652-34
; Sequence 34, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
; US-08-652-34
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 9
US-08-738-652-37
; Sequence 37, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-08-738-652-37
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 10
US-09-286-098-22
; Sequence 22, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; US-09-286-098-22
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 11
US-09-286-098-23
; Sequence 23, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
; US-09-286-098-23
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 12
US-09-286-098-42
; Sequence 42, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 13
US-08-960-774-28
; Sequence 28, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-960-774-28

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 14
US-09-325-193A-17
; Sequence 17, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim

; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-17

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
US-09-325-193A-18
; Sequence 18, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (12)..(12)
; OTHER INFORMATION: msc
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-18

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

Search completed: April 17, 2006, 18:04:52

Job time : 56.375 secs

Result No.	Query			ID	Description		
	Score	Match	Length				
c	1	20	100.0	20	3	US-09-466-320-24	Sequence 24, Appl
	2	20	100.0	20	3	US-09-824-468-22	Sequence 22, Appl
	3	20	100.0	20	3	US-09-824-468-23	Sequence 23, Appl
	4	20	100.0	20	3	US-09-824-468-42	Sequence 42, Appl
	5	20	100.0	20	3	US-09-800-266A-17	Sequence 17, Appl
	6	20	100.0	20	3	US-09-800-266A-18	Sequence 18, Appl
	7	20	100.0	20	3	US-09-800-266A-35	Sequence 35, Appl
	8	20	100.0	20	3	US-09-895-007A-17	Sequence 17, Appl
	9	20	100.0	20	3	US-09-895-007A-18	Sequence 18, Appl
	10	20	100.0	20	3	US-09-895-007A-35	Sequence 35, Appl
	11	20	100.0	20	3	US-09-920-313-17	Sequence 17, Appl
	12	20	100.0	20	3	US-09-920-313-18	Sequence 18, Appl
	13	20	100.0	20	3	US-09-920-313-35	Sequence 35, Appl
	14	20	100.0	20	3	US-09-415-142-21	Sequence 21, Appl
	15	20	100.0	20	3	US-09-888-326-63	Sequence 63, Appl
	16	20	100.0	20	3	US-09-888-326-603	Sequence 603, App
	17	20	100.0	20	3	US-09-888-326-604	Sequence 604, App
	18	20	100.0	20	3	US-09-818-918-31	Sequence 31, Appl
	19	20	100.0	20	3	US-09-818-918-33	Sequence 33, Appl
	20	20	100.0	20	3	US-09-818-918-34	Sequence 34, Appl
	21	20	100.0	20	3	US-09-818-918-37	Sequence 37, Appl
	22	20	100.0	20	3	US-09-931-583-21	Sequence 21, Appl
	23	20	100.0	20	3	US-09-931-583-54	Sequence 54, Appl

; PRIOR FILING DATE: 1999-04-02
 ; NUMBER OF SEQ ID NOS: 105
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 22
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Sequence
 ; NAME/KEY: modified base
 ; LOCATION: (8)...(8)
 ; OTHER INFORMATION: m5c
 US-09-824-468-22

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
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 Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 3

US-09-824-468-23
 ; Sequence 23, Application US/09824468
 ; Patent No. US20020064515A1

; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Methods and Products for Stimulating the
 ; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
 ; TITLE OF INVENTION: Cytokines
 ; FILE REFERENCE: C1039/7026/HCL
 ; CURRENT APPLICATION NUMBER: US/09/824,468
 ; CURRENT FILING DATE: 2001-04-02
 ; PRIOR APPLICATION NUMBER: 09/286,098
 ; PRIOR FILING DATE: 1999-04-02
 ; NUMBER OF SEQ ID NOS: 105
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 23
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Sequence
 ; NAME/KEY: modified base
 ; LOCATION: (12)...(12)
 ; OTHER INFORMATION: m5c
 US-09-824-468-23

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
 |||||
 Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 4

US-09-824-468-42
 ; Sequence 42, Application US/09824468
 ; Patent No. US20020064515A1

; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Methods and Products for Stimulating the
 ; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
 ; TITLE OF INVENTION: Cytokines
 ; FILE REFERENCE: C1039/7026/HCL
 ; CURRENT APPLICATION NUMBER: US/09/824,468
 ; CURRENT FILING DATE: 2001-04-02

; PRIOR APPLICATION NUMBER: 09/286,098
 ; PRIOR FILING DATE: 1999-04-02
 ; NUMBER OF SEQ ID NOS: 105
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 42
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Sequence
 US-09-824-468-42

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
 |||||
 Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 5

US-09-800-266A-17
 ; Sequence 17, Application US/09800266A
 ; Patent No. US20020156033A1

; GENERAL INFORMATION:
 ; APPLICANT: Bratzler, Robert L.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
 ; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
 ; TITLE OF INVENTION: Cancer
 ; FILE REFERENCE: C1037/7017(HCL/MAT)
 ; CURRENT APPLICATION NUMBER: US/09/800,266A
 ; CURRENT FILING DATE: 2001-03-05
 ; PRIOR APPLICATION NUMBER: US 60/187,214
 ; PRIOR FILING DATE: 2000-03-03
 ; NUMBER OF SEQ ID NOS: 146
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 17
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Sequence
 US-09-800-266A-17

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
 |||||
 Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 6

US-09-800-266A-18
 ; Sequence 18, Application US/09800266A
 ; Patent No. US20020156033A1

; GENERAL INFORMATION:
 ; APPLICANT: Bratzler, Robert L.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
 ; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
 ; TITLE OF INVENTION: Cancer
 ; FILE REFERENCE: C1037/7017(HCL/MAT)
 ; CURRENT APPLICATION NUMBER: US/09/800,266A
 ; CURRENT FILING DATE: 2001-03-05
 ; PRIOR APPLICATION NUMBER: US 60/187,214
 ; PRIOR FILING DATE: 2000-03-03
 ; NUMBER OF SEQ ID NOS: 146
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 18

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-18

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCGATGCT 20
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 7
US-09-800-266A-35
; Sequence 35, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-35

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCGATGCT 20
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 8
US-09-895-007A-17
; Sequence 17, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
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US-09-895-007A-17

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCGATGCT 20
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 9
US-09-895-007A-18
; Sequence 18, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-18

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCGATGCT 20
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 10
US-09-895-007A-35
; Sequence 35, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-35

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCGATGCT 20
Db 1 TCCATGTCGGTCTCGATGCT 20
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Qy 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11

US-09-920-313-17
; Sequence 17, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence

US-09-920-313-17

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12

US-09-920-313-18
; Sequence 18, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence

US-09-920-313-18

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 13

; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced

US-09-920-313-35
; Sequence 35, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence

US-09-920-313-35

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 14

US-09-415-142-21
; Sequence 21, Application US/09415142
; Publication No. US20030026782A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/09/415,142
; CURRENT FILING DATE: 1999-10-09
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide

US-09-415-142-21

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15

US-09-888-326-63/c
; Sequence 63, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced

;
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc.feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-63

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Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 20 TCCATGTCGGTCCTGATGCT 1

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Job time : 366.5 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-37

Perfect score: 20
Sequence: 1 tccatgctgctctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA.New.*

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- 2: /SIDSS/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 3: /SIDSS/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 4: /SIDSS/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 5: /SIDSS/ptodata/1/pubpna/US09_NEW_PUB.seq.*
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- 7: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 8: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 9: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 10: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 11: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 12: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 13: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 14: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 15: /SIDSS/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	20	100.0	20	8	US-10-435-656-31
3	20	100.0	20	8	US-10-435-656-33
4	20	100.0	20	8	US-10-435-656-34
5	20	100.0	20	8	US-10-435-656-37
6	20	100.0	20	10	US-10-382-822-28
7	20	100.0	20	12	US-11-127-797-21
8	20	100.0	20	12	US-11-127-803-21
9	20	100.0	20	12	US-11-127-803-21
10	20	100.0	20	14	US-11-127-654-377
11	20	100.0	20	14	US-11-127-654-383
12	20	100.0	20	14	US-11-127-654-444
13	20	100.0	20	14	US-11-127-654-550
14	20	100.0	20	14	US-11-127-654-735
15	20	100.0	20	14	US-11-127-654-736
16	20	100.0	20	14	US-11-134-918-31
17	20	100.0	20	14	US-11-134-918-33
18	20	100.0	20	14	US-11-134-918-34

19	20	100.0	20	14	US-11-134-918-37	Sequence 37, Appl
20	20	100.0	20	14	US-11-031-460-31	Sequence 31, Appl
21	20	100.0	20	14	US-11-031-460-33	Sequence 33, Appl
22	20	100.0	20	14	US-11-031-460-34	Sequence 34, Appl
23	20	100.0	20	14	US-11-031-460-37	Sequence 37, Appl
24	20	100.0	20	14	US-11-067-587-31	Sequence 31, Appl
25	20	100.0	20	14	US-11-067-587-33	Sequence 33, Appl
26	20	100.0	20	14	US-11-067-587-34	Sequence 34, Appl
27	20	100.0	20	14	US-11-067-587-37	Sequence 37, Appl
28	20	100.0	20	14	US-11-099-683-95	Sequence 95, Appl
29	20	100.0	20	14	US-11-099-683-96	Sequence 96, Appl
30	20	100.0	20	14	US-11-099-683-97	Sequence 97, Appl
31	20	100.0	20	14	US-11-099-683-98	Sequence 98, Appl
32	19	95.0	19	14	US-11-127-654-765	Sequence 765, App
33	19	95.0	20	8	US-10-497-591A-96	Sequence 96, Appl
34	19	95.0	20	8	US-10-619-279-30	Sequence 30, Appl
35	19	95.0	20	8	US-10-619-279-31	Sequence 31, Appl
36	19	95.0	20	10	US-10-382-822-30	Sequence 30, Appl
37	19	95.0	20	10	US-10-382-822-31	Sequence 31, Appl
38	19	95.0	20	12	US-11-127-797-23	Sequence 23, Appl
39	19	95.0	20	12	US-11-127-797-24	Sequence 24, Appl
40	19	95.0	20	12	US-11-127-803-23	Sequence 23, Appl
41	19	95.0	20	12	US-11-127-803-24	Sequence 24, Appl
42	19	95.0	20	12	US-11-128-127-23	Sequence 23, Appl
43	19	95.0	20	12	US-11-128-127-24	Sequence 24, Appl
44	19	95.0	20	14	US-11-099-683-100	Sequence 100, App
45	19	95.0	20	14	US-11-099-683-104	Sequence 104, App

ALIGNMENTS

RESULT 1
US-10-619-279-28
; Sequence 28; Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-28

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 2
US-10-435-656-31
; Sequence 31, Application US/10435656
; Publication No. US20050277604A1

```
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-31

Query Match      100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 3
US-10-435-656-33
; Sequence 33, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-10-435-656-33

Query Match      100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 4
US-10-435-656-34
; Sequence 34, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: mSc
US-10-435-656-34

Query Match      100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 5
US-10-435-656-37
; Sequence 37, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-37
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Query Match          100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 6
US-10-382-822-28
; Sequence 28, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; PRIOR FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2008-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-382-822-28

Query Match          100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 7
US-11-127-797-21
; Sequence 21, Application US/11127797
; Publication No. US20050245477A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,797
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 8
US-11-127-803-21
; Sequence 21, Application US/11127803
; Publication No. US20050244379A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,803
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-803-21

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 9
US-11-128-127-21
; Sequence 21, Application US/11128127
; Publication No. US20050244380A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/128,127
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
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US-11-128-127-21

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10

US-11-127-654-377
; Sequence 377, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 377
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-377

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11

US-11-127-654-383/c
; Sequence 383, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 383
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-383

Query Match 100.0%; Score 20; DB 14; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 20 TCCATGTCGGTCCTGATGCT 1

RESULT 12

US-11-127-654-444/c
; Sequence 444, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 444
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-444

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 20 TCCATGTCGGTCCTGATGCT 1

RESULT 13

US-11-127-654-550
; Sequence 550, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 550
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-550

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 14
US-11-127-654-735
; Sequence 735, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT FILING DATE: 2005-05-12
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,654
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 735
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (8)..(8)
; OTHER INFORMATION: m5C
US-11-127-654-735

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 15
US-11-127-654-736
; Sequence 736, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT FILING DATE: 2005-05-12
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 736
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (12)..(12)
; OTHER INFORMATION: m5C
US-11-127-654-736

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
Db 1 TCCATGTCGGTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-38

Perfect score: 20
Sequence: 1 tccatgccggtcctgatgct 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
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- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-38
2	20	100.0	20	3	US-09-286-098-43
3	20	100.0	20	3	US-08-960-774-33
4	20	100.0	20	3	US-09-325-193A-36
5	20	100.0	20	3	US-09-191-170-38
6	20	100.0	20	3	US-09-337-619-33
7	20	100.0	20	3	US-09-954-987B-86
8	20	100.0	20	2	US-08-672-126B-85
9	18.4	92.0	20	2	US-08-436-714-7
10	18.4	92.0	20	2	US-08-442-705-7
11	18.4	92.0	20	2	US-08-332-829-7
12	18.4	92.0	20	3	US-08-386-063-21
13	18.4	92.0	20	3	US-08-386-063-22
14	18.4	92.0	20	3	US-08-386-063-21
15	18.4	92.0	20	3	US-08-386-063-22
16	18.4	92.0	20	3	US-08-738-652-31
17	18.4	92.0	20	3	US-08-738-652-32
18	18.4	92.0	20	3	US-08-738-652-33
19	18.4	92.0	20	3	US-08-738-652-34
20	18.4	92.0	20	3	US-08-738-652-37
21	18.4	92.0	20	3	US-08-738-652-39
22	18.4	92.0	20	3	US-08-738-652-40
23	18.4	92.0	20	3	US-09-286-098-21
24	18.4	92.0	20	3	US-09-286-098-22

25	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
26	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
27	18.4	92.0	20	3	US-09-286-098-44	Sequence 44, Appl
28	18.4	92.0	20	3	US-09-286-098-45	Sequence 45, Appl
29	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
30	18.4	92.0	20	3	US-08-960-774-29	Sequence 29, Appl
31	18.4	92.0	20	3	US-08-960-774-34	Sequence 34, Appl
32	18.4	92.0	20	3	US-08-960-774-35	Sequence 35, Appl
33	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
34	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
35	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
36	18.4	92.0	20	3	US-09-325-193A-37	Sequence 37, Appl
37	18.4	92.0	20	3	US-09-325-193A-38	Sequence 38, Appl
38	18.4	92.0	20	3	US-09-191-170-21	Sequence 21, Appl
39	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
40	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
41	18.4	92.0	20	3	US-09-191-170-39	Sequence 39, Appl
42	18.4	92.0	20	3	US-09-191-170-40	Sequence 40, Appl
43	18.4	92.0	20	3	US-09-337-619-28	Sequence 28, Appl
44	18.4	92.0	20	3	US-09-337-619-29	Sequence 29, Appl
45	18.4	92.0	20	3	US-09-337-619-29	Sequence 29, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-38
; Sequence 38, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-38

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGTCCTGATGCT 20

RESULT 2

US-09-286-098-43
; Sequence 43, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729

```
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-43

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGCCGGTCTCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCTCTGATGCT 20

RESULT 3
US-08-960-774-33
; Sequence 33, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-33

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGCCGGTCTCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCTCTGATGCT 20

RESULT 4
US-09-325-193A-36
; Sequence 36, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-36

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGCCGGTCTCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCTCTGATGCT 20

RESULT 5
US-09-191-170-38
; Sequence 38, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-38

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGCCGGTCTCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCTCTGATGCT 20
```


Db 1 TCCATGCCGGTCTGTGCT 20
|||||

RESULT 6

US-09-337-619-33
; Sequence 33, Application US/09337619
; Patent No. 665322

GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; IMMUNOSTIMULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-337-619-33

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTGTGCT 20
|||||
Db 1 TCCATGCCGGTCTGTGCT 20
|||||

RESULT 7

US-09-954-987B-86
; Sequence 86, Application US/09954987B
; Patent No. 6943240

GENERAL INFORMATION:

; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-86

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTGTGCT 20
|||||
Db 1 TCCATGCCGGTCTGTGCT 20
|||||

RESULT 8

US-09-672-126B-85
; Sequence 85, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; NUCLEIC ACID-INDUCED INTERFERON
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 85
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-672-126B-85

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.9; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTGTGCT 20
|||||
Db 1 TCCATGCCGGTCTGTGCT 20
|||||

RESULT 9

US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244

GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10

US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148

; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611

; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11

US-08-332-829-7
; Sequence 7, Application US/08332829

; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611

; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12

US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200

; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424

; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.

REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 13
US-08-386-063-22
Sequence 22, Application US/08386063
Patent No. 608200
GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESS: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-22

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 14

US-08-386-063-21
Sequence 21, Application US/08386063
Patent No. 6194388
GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESS: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 15
US-08-386-063-22
Sequence 22, Application US/08386063
Patent No. 6194388
GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESS: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

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; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-22

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Best Local Similarity 95.0%; Pred.No. 22;
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Db      1 TCCATGCTGGTCTGATGCT 20

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Search completed: April 17, 2006, 18:04:52
Job time : 56.375 secs


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; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-36

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Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 3
US-09-895-007A-36
; Sequence 36, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-36

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 4
US-09-920-313-36
; Sequence 36, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-36

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 5
US-09-888-326-585
; Sequence 585, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 585
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-585

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 6
US-09-818-918-38
; Sequence 38, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-38

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 7
US-09-931-583-49
; Sequence 49, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 8
US-09-776-479-775
; Sequence 775, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA

; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-775

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 9
US-09-954-987B-86
; Sequence 86, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-86

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 10
US-09-776-479-775
; Sequence 775, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-775

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 11
US-10-023-909A-36
; Sequence 36, Application US/10023909A
; Publication No. US2002016431A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/023,909A
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-023-909A-36

Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 12
US-10-112-653-748
; Sequence 748, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 748
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-748

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Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 13
US-10-017-995-775
; Sequence 775, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-775

Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 14
US-10-300-247-36
; Sequence 36, Application US/10300247
; Publication No. US20030091599A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/300,247
; CURRENT FILING DATE: 2002-11-20
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-36

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Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 15
US-10-161-229-38
; Sequence 38, Application US/10161229
; Publication No. US20030100527A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules for
; TITLE OF INVENTION: Activating Dendritic Cells
; FILE REFERENCE: C01039/70061
; CURRENT APPLICATION NUMBER: US/10/161,229
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: US 09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-161-229-38

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Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

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Job time : 366.5 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-38

Perfect score: 20
Sequence: 1 tccatgccggtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New.*

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- 2: /SID55/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 3: /SID55/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 4: /SID55/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 5: /SID55/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 6: /SID55/ptodata/1/pubpna/US09_NEW_PUB.seq1.*
- 7: /SID55/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 8: /SID55/ptodata/1/pubpna/US10_NEW_PUB.seq1.*
- 9: /SID55/ptodata/1/pubpna/US10_NEW_PUB.seq2.*
- 10: /SID55/ptodata/1/pubpna/US10_NEW_PUB.seq3.*
- 11: /SID55/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 12: /SID55/ptodata/1/pubpna/US11_NEW_PUB.seq2.*
- 13: /SID55/ptodata/1/pubpna/US11_NEW_PUB.seq3.*
- 14: /SID55/ptodata/1/pubpna/US11_NEW_PUB.seq4.*
- 15: /SID55/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	US-10-619-279-33	Sequence 33, Appl
2	20	100.0	20	US-10-435-656-38	Sequence 38, Appl
3	20	100.0	20	US-10-382-822-33	Sequence 33, Appl
4	20	100.0	20	US-11-127-654-748	Sequence 748, Appl
5	20	100.0	20	US-11-134-918-38	Sequence 38, Appl
6	20	100.0	20	US-11-031-460-38	Sequence 38, Appl
7	20	100.0	20	US-11-067-587-38	Sequence 38, Appl
8	20	100.0	20	US-11-099-683-85	Sequence 85, Appl
9	20	100.0	20	US-11-099-683-86	Sequence 86, Appl
10	18.4	92.0	20	US-10-619-279-28	Sequence 28, Appl
11	18.4	92.0	20	US-10-619-279-29	Sequence 29, Appl
12	18.4	92.0	20	US-10-619-279-34	Sequence 34, Appl
13	18.4	92.0	20	US-10-619-279-35	Sequence 35, Appl
14	18.4	92.0	20	US-10-435-656-31	Sequence 31, Appl
15	18.4	92.0	20	US-10-435-656-32	Sequence 32, Appl
16	18.4	92.0	20	US-10-435-656-33	Sequence 33, Appl
17	18.4	92.0	20	US-10-435-656-34	Sequence 34, Appl
18	18.4	92.0	20	US-10-435-656-37	Sequence 37, Appl

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19 18.4 92.0 20 8 US-10-435-656-39 Sequence 39, Appl
20 18.4 92.0 20 8 US-10-435-656-40 Sequence 40, Appl
21 18.4 92.0 20 10 US-10-382-822-28 Sequence 28, Appl
22 18.4 92.0 20 10 US-10-382-822-29 Sequence 29, Appl
23 18.4 92.0 20 10 US-10-382-822-34 Sequence 34, Appl
24 18.4 92.0 20 10 US-10-382-822-35 Sequence 35, Appl
25 18.4 92.0 20 12 US-11-127-797-21 Sequence 21, Appl
26 18.4 92.0 20 12 US-11-127-797-22 Sequence 22, Appl
27 18.4 92.0 20 12 US-11-127-803-21 Sequence 21, Appl
28 18.4 92.0 20 12 US-11-127-803-22 Sequence 22, Appl
29 18.4 92.0 20 12 US-11-128-127-21 Sequence 21, Appl
30 18.4 92.0 20 12 US-11-128-127-22 Sequence 22, Appl
31 18.4 92.0 20 14 US-11-127-654-377 Sequence 377, App
32 18.4 92.0 20 14 US-11-127-654-383 Sequence 383, App
33 18.4 92.0 20 14 US-11-127-654-444 Sequence 444, App
34 18.4 92.0 20 14 US-11-127-654-550 Sequence 550, App
35 18.4 92.0 20 14 US-11-127-654-711 Sequence 711, App
36 18.4 92.0 20 14 US-11-127-654-727 Sequence 727, App
37 18.4 92.0 20 14 US-11-127-654-728 Sequence 728, App
38 18.4 92.0 20 14 US-11-127-654-735 Sequence 735, App
39 18.4 92.0 20 14 US-11-127-654-736 Sequence 736, App
40 18.4 92.0 20 14 US-11-127-654-946 Sequence 946, App
41 18.4 92.0 20 14 US-11-134-918-31 Sequence 31, Appl
42 18.4 92.0 20 14 US-11-134-918-32 Sequence 32, Appl
43 18.4 92.0 20 14 US-11-134-918-33 Sequence 33, Appl
44 18.4 92.0 20 14 US-11-134-918-34 Sequence 34, Appl
45 18.4 92.0 20 14 US-11-134-918-37 Sequence 37, Appl

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ALIGNMENTS

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RESULT 1
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; Sequence 33, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-33

```

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Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Oy 1 TCCATGCCGCTCCTGATGCT 20

Db 1 TCCATGCCGCTCCTGATGCT 20

RESULT 2

```

US-10-435-656-38
; Sequence 38, Application US/10435656
; Publication No. US20050277604A1

```

```
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-10-435-656-38

Query Match      100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGCCGGTCTCTGATGCT 20
Db      1  TCCATGCCGGTCTCTGATGCT 20

RESULT 3
US-10-382-822-33
; Sequence 33, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; US-10-382-822-33

Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGCCGGTCTCTGATGCT 20
Db      1  TCCATGCCGGTCTCTGATGCT 20

; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 748
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-11-127-654-748

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGCCGGTCTCTGATGCT 20
Db      1  TCCATGCCGGTCTCTGATGCT 20

RESULT 5
US-11-134-918-38
; Sequence 38, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-11-134-918-38

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 6
US-11-031-460-38
; Sequence 38, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-38

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 7
US-11-067-587-38
; Sequence 38, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-38

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 8
US-11-099-683-85
; Sequence 85, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 85
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-85

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 9
US-11-099-683-86
; Sequence 86, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-86

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20
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Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 10

US-10-619-279-28
; Sequence 28, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-28

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20

Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 11

US-10-619-279-29
; Sequence 29, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 29
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-29

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20

Db 1 TCCATGCTGGTCCTGATGCT 20

RESULT 12

US-10-619-279-34
; Sequence 34, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-34

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20

Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 13

US-10-619-279-35
; Sequence 35, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-35

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 14

US-10-435-656-31
; Sequence 31, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-31

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCGGTCTCTGATGCT 20

RESULT 15

US-10-435-656-32
; Sequence 32, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-32

Query Match 92.0%; Score 18.4; DB 8; Length 20;

Best Local Similarity 95.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCGGTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-39
2	20	100.0	20	3	US-09-286-098-44
3	20	100.0	20	3	US-08-960-774-34
4	20	100.0	20	3	US-09-325-193A-37
5	20	100.0	20	3	US-09-191-170-39
6	20	100.0	20	3	US-09-337-619-34
7	20	100.0	20	3	US-09-954-987B-90
8	20	100.0	20	2	US-08-672-126B-88
9	18.4	92.0	20	2	US-08-436-714-7
10	18.4	92.0	20	2	US-08-442-705-7
11	18.4	92.0	20	2	US-08-332-829-7
12	18.4	92.0	20	3	US-08-386-063-21
13	18.4	92.0	20	3	US-08-386-063-21
14	18.4	92.0	20	3	US-08-738-652-31
15	18.4	92.0	20	3	US-08-738-652-33
16	18.4	92.0	20	3	US-08-738-652-34
17	18.4	92.0	20	3	US-08-738-652-37
18	18.4	92.0	20	3	US-08-738-652-38
19	18.4	92.0	20	3	US-08-738-652-40
20	18.4	92.0	20	3	US-09-286-098-22
21	18.4	92.0	20	3	US-09-286-098-23
22	18.4	92.0	20	3	US-09-286-098-42
23	18.4	92.0	20	3	US-09-286-098-43
24	18.4	92.0	20	3	US-09-286-098-45

25	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
26	18.4	92.0	20	3	US-08-960-774-33	Sequence 33, Appl
27	18.4	92.0	20	3	US-08-960-774-35	Sequence 35, Appl
28	18.4	92.0	20	3	US-08-960-774-101	Sequence 101, App
29	18.4	92.0	20	3	US-08-960-774-102	Sequence 102, App
30	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
31	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
32	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
33	18.4	92.0	20	3	US-09-325-193A-36	Sequence 36, Appl
34	18.4	92.0	20	3	US-09-325-193A-38	Sequence 38, Appl
35	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
36	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
37	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
38	18.4	92.0	20	3	US-09-191-170-38	Sequence 38, Appl
39	18.4	92.0	20	3	US-09-191-170-40	Sequence 40, Appl
40	18.4	92.0	20	3	US-09-337-619-28	Sequence 28, Appl
41	18.4	92.0	20	3	US-09-337-619-33	Sequence 33, Appl
42	18.4	92.0	20	3	US-09-337-619-35	Sequence 35, Appl
43	18.4	92.0	20	3	US-09-954-987B-80	Sequence 80, Appl
44	18.4	92.0	20	3	US-09-954-987B-86	Sequence 86, Appl
45	18.4	92.0	20	3	US-09-954-987B-93	Sequence 93, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-39
; Sequence 39, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-39

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCCATGGCGGTCCTGATGCT 20
|||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 2
US-09-286-098-44
; Sequence 44, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729

```

; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-44

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 3
US-08-960-774-34
; Sequence 34, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-960-774-34

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20
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RESULT 4
US-09-325-193A-37
; Sequence 37, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-37

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 5
US-09-191-170-39
; Sequence 39, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-39

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20
|||||

RESULT 6

US-09-337-619-34
; Sequence 34, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; IMMUNOSTIMULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; PRIOR FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-34

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 7

US-09-954-987B-90
; Sequence 90, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-90

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 8

US-09-672-126B-88
; Sequence 88, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 88
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-88

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 9

US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; Thiothiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10

US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide

; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

; STATE: Connecticut

; COUNTRY: USA

; ZIP: 06611

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: Macintosh

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Microsoft Word 4.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/442.705

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: George M. Yahwak

; REGISTRATION NUMBER: 26,824

; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951

; TELEFAX: (203)268-1951

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
||||| |||||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11

US-08-332-829-7

; Sequence 7, Application US/08332829

; Patent No. 5750666
; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

; STATE: Connecticut

; COUNTRY: USA

; ZIP: 06611

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: Macintosh

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Microsoft Word 4.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/332,829

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: George M. Yahwak

; REGISTRATION NUMBER: 26,824

; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951

; TELEFAX: (203)268-1951

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12

US-08-386-063-21

; Sequence 21, Application US/08386063

; Patent No. 6008200

; GENERAL INFORMATION:

; APPLICANT: Arthur M. Krieg, M.D.

; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES

; NUMBER OF SEQUENCES: 27

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: LAHIVE & COCKFIELD

; STREET: 60 STATE STREET, SUITE 510

; CITY: BOSTON

; STATE: MASSACHUSETTS

; COUNTRY: USA

; ZIP: 02109-1875

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: ASCII text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/386,063

; FILING DATE:

; CLASSIFICATION: 424

; ATTORNEY/AGENT INFORMATION:

; NAME: ARNOLD, BETH E.

REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
DB 1 TCCATGGCGGTCCTGATGCT 20

RESULT 13
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
DB 1 TCCATGGCGGTCCTGATGCT 20

RESULT 14

US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
DB 1 TCCATGGCGGTCCTGATGCT 20

RESULT 15
US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
DB 1 TCCATGGCGGTCCTGATGCT 20

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Job time : 56.375 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:32:13 ; Search time 366.375 Seconds
(without alignments)
451.416 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtcctgatgct 20

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Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	20	100.0	20	3	US-09-800-266A-37
3	20	100.0	20	3	US-09-895-007A-37
4	20	100.0	20	3	US-09-920-313-37
5	20	100.0	20	3	US-09-888-326-595
6	20	100.0	20	3	US-09-818-918-39
7	20	100.0	20	3	US-09-931-583-51
8	20	100.0	20	3	US-09-776-479-755
9	20	100.0	20	3	US-09-954-987B-90
10	20	100.0	20	3	US-09-874-91C-39
11	20	100.0	20	3	US-09-874-91C-105
12	20	100.0	20	3	US-09-874-91C-128
13	20	100.0	20	3	US-09-874-91C-156
14	20	100.0	20	3	US-09-874-91C-177
15	20	100.0	20	3	US-09-874-91C-202
16	20	100.0	20	3	US-09-874-91C-418
17	20	100.0	20	3	US-09-874-91C-437
18	20	100.0	20	3	US-09-776-479-755
19	20	100.0	20	5	US-10-023-909A-37
20	20	100.0	20	5	US-10-112-653-728
21	20	100.0	20	5	US-10-017-995-755
22	20	100.0	20	5	US-10-300-247-37
23	20	100.0	20	5	US-10-161-229-39

24	20	100.0	20	6	US-10-187-264A-34	Sequence 34, Appl
25	20	100.0	20	6	US-10-265-072-88	Sequence 88, Appl
26	20	100.0	20	6	US-10-306-522-34	Sequence 34, Appl
27	20	100.0	20	6	US-10-314-578-755	Sequence 755, Appl
28	20	100.0	20	6	US-10-434-696-37	Sequence 37, Appl
29	20	100.0	20	7	US-10-373-381-32	Sequence 32, Appl
30	20	100.0	20	7	US-10-719-493-34	Sequence 34, Appl
31	20	100.0	20	7	US-10-627-331-34	Sequence 34, Appl
32	20	100.0	20	7	US-10-666-733-37	Sequence 37, Appl
33	20	100.0	20	7	US-10-743-625-39	Sequence 39, Appl
34	20	100.0	20	7	US-10-678-710-39	Sequence 39, Appl
35	20	100.0	20	7	US-10-769-282-39	Sequence 39, Appl
36	20	100.0	20	8	US-10-817-165-39	Sequence 39, Appl
37	20	100.0	20	8	US-10-877-407-43	Sequence 43, Appl
38	20	100.0	20	8	US-10-877-369-32	Sequence 32, Appl
39	20	100.0	20	8	US-10-816-220-37	Sequence 37, Appl
40	20	100.0	20	8	US-10-831-778-755	Sequence 755, Appl
41	20	100.0	20	8	US-10-876-892-32	Sequence 32, Appl
42	20	100.0	20	8	US-10-876-965-32	Sequence 32, Appl
43	20	100.0	20	8	US-10-888-886-37	Sequence 37, Appl
44	20	100.0	20	8	US-10-847-642-39	Sequence 39, Appl
45	20	100.0	20	8	US-10-888-785-39	Sequence 39, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-44
; Sequence 44, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 2
US-09-800-266A-37
; Sequence 37, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A

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; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCTCTGATGCT 20
Db 1 TCCATGGCGGTCTCTGATGCT 20

RESULT 3
US-09-895-007A-37
; Sequence 37, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCTCTGATGCT 20
Db 1 TCCATGGCGGTCTCTGATGCT 20

RESULT 4
US-09-920-313-37
; Sequence 37, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 37
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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCTCTGATGCT 20
Db 1 TCCATGGCGGTCTCTGATGCT 20

RESULT 5
US-09-888-326-595
; Sequence 595, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 595
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-595

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCTCTGATGCT 20
Db 1 TCCATGGCGGTCTCTGATGCT 20

RESULT 6
US-09-818-918-39
; Sequence 39, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
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; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-39

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 7

US-09-931-583-51
; Sequence 51, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Kleinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053(HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-51

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 8

US-09-776-479-755
; Sequence 755, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 755
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-755

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 9

US-09-954-987B-90
; Sequence 90, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-90

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 10

US-09-874-991C-39
; Sequence 39, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-39

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTCGATGCT 20
Db 1 TCCATGGCGGTCCTCGATGCT 20

RESULT 11
US-09-874-991C-105
; Sequence 105, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-105

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTCGATGCT 20
Db 1 TCCATGGCGGTCCTCGATGCT 20

RESULT 12
US-09-874-991C-128
; Sequence 128, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 128
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-128

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTCGATGCT 20
Db 1 TCCATGGCGGTCCTCGATGCT 20

RESULT 13
US-09-874-991C-156
; Sequence 156, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 156
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-156

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTCGATGCT 20
Db 1 TCCATGGCGGTCCTCGATGCT 20

RESULT 14
US-09-874-991C-177
; Sequence 177, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 177
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-177

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-177
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Qy 1 TCCATGGCGGTCCTCGATGCT 20
Db 1 TCCATGGCGGTCCTCGATGCT 20
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RESULT 15

US-09-874-991C-202
; Sequence 202, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 50/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 202
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-202

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGGGGCTCTGATGCT 20
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Db 1 TCCATGGGGGCTCTGATGCT 20

Search completed: April 17, 2006, 20:43:35
Job time : 366.5 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtcctgatgct 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /SIDSS/ptodata/1/pubpna/US07_NEW_PUB.seq*
- 4: /SIDSS/ptodata/1/pubpna/PCT_NEW_PUB.seq*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	20	100.0	20	8	US-10-435-656-39
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4	20	100.0	20	14	US-11-127-654-728
5	20	100.0	20	14	US-11-134-918-39
6	20	100.0	20	14	US-11-031-460-39
7	20	100.0	20	14	US-11-067-587-39
8	20	100.0	20	14	US-11-099-683-89
9	20	100.0	20	14	US-11-099-683-90
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39 18.4 92.0 20 14 US-11-134-918-38
40 18.4 92.0 20 14 US-11-134-918-40
41 18.4 92.0 20 14 US-11-031-460-31
42 18.4 92.0 20 14 US-11-031-460-33
43 18.4 92.0 20 14 US-11-031-460-34
44 18.4 92.0 20 14 US-11-031-460-37
45 18.4 92.0 20 14 US-11-031-460-38

```

ALIGNMENTS

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RESULT 1
US-10-619-279-34
; Sequence 34, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-34

```

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Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

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RESULT 2
US-10-435-656-39
; Sequence 39, Application US/10435656
; Publication No. US20050277604A1

```

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; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-39

Query Match      100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 3
US-10-382-822-34
; Sequence 34, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-382-822-34

Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

US-11-127-654-728
; Sequence 728, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 728
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-728

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 5
US-11-134-918-39
; Sequence 39, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-39

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 6

US-11-031-460-39
; Sequence 39, Application US/11031460
; Publication No. US2005027609A1
; GENERAL INFORMATION:
; APPLICANT: Kline, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-39

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 7

US-11-067-587-39
; Sequence 39, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-39

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 8

US-11-099-683-89
; Sequence 89, Application US/11099683
; Publication No. US2006001916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037,70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-89

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 9

US-11-099-683-90
; Sequence 90, Application US/11099683
; Publication No. US2006001916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037,70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-90

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

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Db      1  TCCATGGCGGTCCTGATGCT 20

RESULT 10
US-10-497-591A-97
; Sequence 97, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 97
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
; NAME/KEY: modified_base
; LOCATION: (9)
; OTHER INFORMATION: n = inosine or uracil
US-10-497-591A-97

Query Match      95.0%; Score 19; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
Db      1  TCCATGGCGGTCCTGATGCT 20

RESULT 11
US-10-619-279-28
; Sequence 28, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-28

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
Db      1  TCCATGGCGGTCCTGATGCT 20

RESULT 12
US-10-619-279-33
; Sequence 33, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-33

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
Db      1  TCCATGGCGGTCCTGATGCT 20

RESULT 13
US-10-619-279-35
; Sequence 35, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-35

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
Db      1  TCCATGGCGGTCCTGATGCT 20
```


Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCCATGGCGTCTCTGATGCT 20
DB 1 TCCATGACGGTCTCTGATGCT 20

RESULT 14
US-10-435-656-31
; Sequence 31, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-31

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCCATGGCGTCTCTGATGCT 20
DB 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 15
US-10-435-656-33
; Sequence 33, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-10-435-656-33

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCCATGGCGTCTCTGATGCT 20
DB 1 TCCATGTCGGTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-40

Perfect score: 20
Sequence: 1 tccatgacggtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-40
2	20	100.0	20	3	US-09-286-098-45
3	20	100.0	20	3	US-08-960-774-35
4	20	100.0	20	3	US-09-325-193A-38
5	20	100.0	20	3	US-09-191-170-40
6	20	100.0	20	3	US-09-337-619-35
7	20	100.0	20	3	US-09-954-987B-80
8	20	100.0	20	2	US-08-672-126B-80
9	18.4	92.0	20	2	US-08-436-714-7
10	18.4	92.0	20	2	US-08-442-705-7
11	18.4	92.0	20	2	US-08-332-829-7
12	18.4	92.0	20	2	US-09-133-774-11
13	18.4	92.0	20	3	US-08-386-063-21
14	18.4	92.0	20	3	US-08-386-063-25
15	18.4	92.0	20	3	US-09-303-862-11
16	18.4	92.0	20	3	US-08-386-063-21
17	18.4	92.0	20	3	US-08-386-063-25
18	18.4	92.0	20	3	US-08-738-652-7
19	18.4	92.0	20	3	US-08-738-652-31
20	18.4	92.0	20	3	US-08-738-652-33
21	18.4	92.0	20	3	US-08-738-652-34
22	18.4	92.0	20	3	US-08-738-652-35
23	18.4	92.0	20	3	US-08-738-652-37
24	18.4	92.0	20	3	US-08-738-652-38

25	18.4	92.0	20	3	US-08-738-652-39	Sequence 39, Appl
26	18.4	92.0	20	3	US-08-738-652-44	Sequence 44, Appl
27	18.4	92.0	20	3	US-08-738-652-54	Sequence 54, Appl
28	18.4	92.0	20	3	US-09-286-098-22	Sequence 22, Appl
29	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
30	18.4	92.0	20	3	US-09-286-098-24	Sequence 24, Appl
31	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
32	18.4	92.0	20	3	US-09-286-098-43	Sequence 43, Appl
33	18.4	92.0	20	3	US-09-286-098-44	Sequence 44, Appl
34	18.4	92.0	20	3	US-08-960-774-7	Sequence 7, Appl
35	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
36	18.4	92.0	20	3	US-08-960-774-33	Sequence 33, Appl
37	18.4	92.0	20	3	US-08-960-774-34	Sequence 34, Appl
38	18.4	92.0	20	3	US-08-960-774-87	Sequence 87, Appl
39	18.4	92.0	20	3	US-08-960-774-89	Sequence 89, Appl
40	18.4	92.0	20	3	US-09-082-649B-68	Sequence 68, Appl
41	18.4	92.0	20	3	US-09-082-649B-79	Sequence 79, Appl
42	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
43	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
44	18.4	92.0	20	3	US-09-325-193A-19	Sequence 19, Appl
45	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-40
; Sequence 40, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-40

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
|||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 2
US-09-286-098-45
; Sequence 45, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729

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; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-45

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 3
US-08-960-774-35
; Sequence 35, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-35

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 4
US-09-325-193A-38
; Sequence 38, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-38

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 5
US-09-191-170-40
; Sequence 40, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGACGGTCCTGATGCT 20
|||||

RESULT 6

US-09-337-619-35
; Sequence 35, Application US/09337619
; Patent No. 665322
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-35

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
|||||

Db 1 TCCATGACGGTCCTGATGCT 20
|||||

RESULT 7

US-09-954-987B-80
; Sequence 80, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 80
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-80

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
|||||

Db 1 TCCATGACGGTCCTGATGCT 20
|||||

RESULT 8

US-09-672-126B-80
; Sequence 80, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 80
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-80

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
|||||

Db 1 TCCATGACGGTCCTGATGCT 20
|||||

RESULT 9

US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; Thiothiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:

```
;
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match          92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match          92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11
US-08-332-829-7
; Sequence 7, Application US/08332829
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; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match          92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11
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Query Match          92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    ||||| ||||| |||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 13
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    ||||| ||||| |||||
Db 1 TCCATGCGGTCCTGATGCT 20

RESULT 14
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875

Query Match          92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    ||||| ||||| |||||
Db 1 TCCATGCGGTCCTGATGCT 20

RESULT 15
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; EARLIER FILING DATE: 1999-05-03
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
    ||||| ||||| |||||
Db 1 TCCATGACGGTCCTGATGCT 20

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Job time : 56.375 secs
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:32:13 ; Search time 366.375 Seconds
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Title: US-09-818-918-40

Perfect score: 20
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Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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3	20	100.0	20	3	US-09-895-007A-38
4	20	100.0	20	3	US-09-920-313-38
5	20	100.0	20	3	US-09-888-326-555
6	20	100.0	20	3	US-09-818-918-40
7	20	100.0	20	3	US-09-931-583-45
8	20	100.0	20	3	US-09-776-479-754
9	20	100.0	20	3	US-09-954-987B-80
10	20	100.0	20	3	US-09-874-991C-40
11	20	100.0	20	3	US-09-874-991C-106
12	20	100.0	20	3	US-09-874-991C-129
13	20	100.0	20	3	US-09-874-991C-157
14	20	100.0	20	3	US-09-874-991C-178
15	20	100.0	20	3	US-09-874-991C-203
16	20	100.0	20	3	US-09-874-991C-419
17	20	100.0	20	3	US-09-874-991C-438
18	20	100.0	20	3	US-09-776-479-754
19	20	100.0	20	5	US-10-023-909A-38
20	20	100.0	20	5	US-10-112-653-727
21	20	100.0	20	5	US-10-017-995-754
22	20	100.0	20	5	US-10-300-247-38
23	20	100.0	20	5	US-10-161-229-40

24	20	100.0	20	6	US-10-187-264A-35	Sequence 35, Appl
25	20	100.0	20	6	US-10-265-072-81	Sequence 81, Appl
26	20	100.0	20	6	US-10-306-523-35	Sequence 35, Appl
27	20	100.0	20	6	US-10-314-578-754	Sequence 754, App
28	20	100.0	20	6	US-10-434-696-38	Sequence 38, Appl
29	20	100.0	20	7	US-10-373-381-33	Sequence 33, Appl
30	20	100.0	20	7	US-10-719-493-35	Sequence 35, Appl
31	20	100.0	20	7	US-10-627-331-35	Sequence 35, Appl
32	20	100.0	20	7	US-10-666-733-38	Sequence 38, Appl
33	20	100.0	20	7	US-10-743-625-40	Sequence 40, Appl
34	20	100.0	20	7	US-10-679-710-40	Sequence 40, Appl
35	20	100.0	20	7	US-10-769-282-40	Sequence 40, Appl
36	20	100.0	20	8	US-10-817-165-40	Sequence 40, Appl
37	20	100.0	20	8	US-10-877-407-35	Sequence 35, Appl
38	20	100.0	20	8	US-10-877-369-33	Sequence 33, Appl
39	20	100.0	20	8	US-10-816-220-38	Sequence 38, Appl
40	20	100.0	20	8	US-10-831-778-754	Sequence 754, App
41	20	100.0	20	8	US-10-876-892-33	Sequence 33, Appl
42	20	100.0	20	8	US-10-876-965-33	Sequence 33, Appl
43	20	100.0	20	8	US-10-888-886-38	Sequence 38, Appl
44	20	100.0	20	8	US-10-847-642-40	Sequence 40, Appl
45	20	100.0	20	8	US-10-888-785-40	Sequence 40, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-45
; Sequence 45, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-45

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 2
US-09-800-266A-38
; Sequence 38, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/NAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A

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; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-38

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 3
US-09-895-007A-38
; Sequence 38, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-38

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 4
US-09-920-313-38
; Sequence 38, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-38

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 5
US-09-888-326-555
; Sequence 555, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 555
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-555

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 6
US-09-818-918-40
; Sequence 40, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
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Query Match	Best Local Similarity	Score	DB	Length	Indels	Gaps
100.0%;	100.0%;	20;	DB 3;	Length 20;	0;	0;
Matches	Conservative	0;	Mismatches	0;	Indels	0;
1	TCCATGACGGTCTCTGATGCT	20				
1	TCCATGACGGTCTCTGATGCT	20				
<p>RESULT 9</p> <p>US-09-954-987B-80</p> <p>Sequence 80, Application US/09954987B</p> <p>Publication No. US20030104523A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Stefan Bauer</p> <p>APPLICANT: Grayson B. Lipford</p> <p>APPLICANT: Hermann Wagner</p> <p>TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF</p> <p>TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST</p> <p>FILE REFERENCE: C1041/7016 (AWS)</p> <p>CURRENT APPLICATION NUMBER: US/09/954,987B</p> <p>CURRENT FILING DATE: 2001-09-17</p> <p>PRIOR APPLICATION NUMBER: US 60/233,035</p> <p>PRIOR FILING DATE: 2000-09-15</p> <p>PRIOR APPLICATION NUMBER: US 60/263,657</p> <p>PRIOR FILING DATE: 2001-01-23</p> <p>PRIOR APPLICATION NUMBER: US 60/291,726</p> <p>PRIOR FILING DATE: 2001-05-17</p> <p>PRIOR APPLICATION NUMBER: US 60/300,210</p> <p>PRIOR FILING DATE: 2001-06-22</p> <p>NUMBER OF SEQ ID NOS: 230</p> <p>SOFTWARE: FastSeq for Windows Version 3.0</p> <p>SEQ ID NO 80</p> <p>LENGTH: 20</p> <p>TYPE: DNA</p> <p>ORGANISM: Artificial Sequence</p> <p>FEATURE:</p> <p>NAME/KEY: misc feature</p> <p>OTHER INFORMATION: Synthetic oligonucleotide</p> <p>US-09-954-987B-80</p>						
Query Match	Best Local Similarity	Score	DB	Length	Indels	Gaps
100.0%;	100.0%;	20;	DB 3;	Length 20;	0;	0;
Matches	Conservative	0;	Mismatches	0;	Indels	0;
1	TCCATGACGGTCTCTGATGCT	20				
1	TCCATGACGGTCTCTGATGCT	20				
<p>RESULT 10</p> <p>US-09-874-991C-40</p> <p>Sequence 40, Application US/09874991C</p> <p>Publication No. US20040052763A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: MOND, JAMES J.</p> <p>APPLICANT: FLORA, MICHAEL</p> <p>APPLICANT: KLINMAN, DENNIS M.</p> <p>TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES</p> <p>FILE REFERENCE: 07787.0042-0</p> <p>CURRENT APPLICATION NUMBER: US/09/874,991C</p> <p>CURRENT FILING DATE: 2001-06-07</p> <p>PRIOR APPLICATION NUMBER: 60/209,797</p> <p>PRIOR FILING DATE: 2000-06-07</p> <p>NUMBER OF SEQ ID NOS: 620</p> <p>SOFTWARE: PatentIn Ver. 2.1</p> <p>SEQ ID NO 40</p> <p>LENGTH: 20</p> <p>TYPE: DNA</p>						

<pre>; SEQ ID NO 40 ; LENGTH: 20 ; TYPE: DNA ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Synthetic oligonucleotide US-09-818-918-40 Query Match 100.0%; Score 20; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 6.3; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY 1 TCCATGACGGTCTCGTGCT 20 DB 1 TCCATGACGGTCTCGTGCT 20</pre>	<pre>; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Synthetic Sequence US-776-479-754 Query Match 100.0%; Score 20; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 6.3; Matches 20; Conservative 0; Mismatches 0; Indels 0; QY 1 TCCATGACGGTCTCGTGCT 20 DB 1 TCCATGACGGTCTCGTGCT 20</pre>
<pre>RESULT 7 US-09-931-583-45 ; Sequence 45, Application US/09931583 ; Publication No. US20030050263A1 ; GENERAL INFORMATION: ; APPLICANT: Krieg, Arthur ; APPLICANT: Klinman, Dennis ; APPLICANT: Steinberg, Alfred ; TITLE OF INVENTION: Methods and Products for Treating HIV Infection ; FILE REFERENCE: C1039/7053(HCL) ; CURRENT APPLICATION NUMBER: US/09/931,583 ; CURRENT FILING DATE: 2001-08-16 ; PRIOR APPLICATION NUMBER: US 08/276,358 ; PRIOR FILING DATE: 1994-07-15 ; PRIOR APPLICATION NUMBER: US 09/415,142 ; PRIOR FILING DATE: 1999-10-09 ; NUMBER OF SEQ ID NOS: 75 ; SOFTWARE: PatentIn version 3.0 ; SEQ ID NO 45 ; LENGTH: 20 ; TYPE: DNA ; ORGANISM: Artificial Sequence ; NAME/KEY: misc feature ; FEATURE: ; OTHER INFORMATION: Synthetic Oligonucleotide US-09-931-583-45 Query Match 100.0%; Score 20; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 6.3; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY 1 TCCATGACGGTCTCGTGCT 20 DB 1 TCCATGACGGTCTCGTGCT 20</pre>	<pre>RESULT 9 US-09-954-987B-80 ; Sequence 80, Application US/09954987B ; Publication No. US20030104523A1 ; GENERAL INFORMATION: ; APPLICANT: Stefan Bauer ; APPLICANT: Grayson B. Lipford ; APPLICANT: Hermann Wagner ; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF ; FILE REFERENCE: C1041/7016 (AWS) ; CURRENT APPLICATION NUMBER: US/09/954,987B ; CURRENT FILING DATE: 2001-09-17 ; PRIOR APPLICATION NUMBER: US 60/233,035 ; PRIOR FILING DATE: 2000-09-15 ; PRIOR APPLICATION NUMBER: US 60/263,657 ; PRIOR FILING DATE: 2001-01-23 ; PRIOR APPLICATION NUMBER: US 60/291,726 ; PRIOR FILING DATE: 2001-05-17 ; PRIOR APPLICATION NUMBER: US 60/300,210 ; PRIOR FILING DATE: 2001-06-22 ; NUMBER OF SEQ ID NOS: 230 ; SOFTWARE: FastSeq for Windows Version 3.0 ; SEQ ID NO 80 ; LENGTH: 20 ; TYPE: DNA ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Synthetic oligonucleotide US-09-954-987B-80 Query Match 100.0%; Score 20; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 6.3; Matches 20; Conservative 0; Mismatches 0; Indels 0; QY 1 TCCATGACGGTCTCGTGCT 20 DB 1 TCCATGACGGTCTCGTGCT 20</pre>
<pre>RESULT 8 US-09-776-479-754 ; Sequence 754, Application US/09776479 ; Publication No. US20030087848A1 ; GENERAL INFORMATION: ; APPLICANT: Bratzler, Robert L. ; APPLICANT: Petersen, Deanna M. ; APPLICANT: Fouron, Yves ; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the ; FILE REFERENCE: C1037/7013 (HCL/MAT) ; CURRENT APPLICATION NUMBER: US/09/776,479 ; CURRENT FILING DATE: 2001-02-02 ; PRIOR APPLICATION NUMBER: US 60/179,991 ; PRIOR FILING DATE: 2000-02-03 ; NUMBER OF SEQ ID NOS: 1093 ; SOFTWARE: FastSeq for Windows Version 3.0 ; SEQ ID NO 754 ; LENGTH: 20 ; TYPE: DNA</pre>	<pre>RESULT 10 US-09-874-991C-40 ; Sequence 40, Application US/09874991C ; Publication No. US20040052763A1 ; GENERAL INFORMATION: ; APPLICANT: MOND, JAMES J. ; APPLICANT: FLORA, MICHAEL ; APPLICANT: KLINMAN, DENNIS M. ; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES ; FILE REFERENCE: 07787.0042-0 ; CURRENT APPLICATION NUMBER: US/09/874,991C ; CURRENT FILING DATE: 2001-06-07 ; PRIOR APPLICATION NUMBER: 60/209,797 ; PRIOR FILING DATE: 2000-06-07 ; NUMBER OF SEQ ID NOS: 620 ; SOFTWARE: PatentIn Ver. 2.1 ; SEQ ID NO 40 ; LENGTH: 20 ; TYPE: DNA</pre>

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 11
US-09-874-991C-106
; Sequence 106, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 106
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-106

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 12
US-09-874-991C-129
; Sequence 129, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-129

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 13
US-09-874-991C-157
; Sequence 157, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 157
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-157

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 14
US-09-874-991C-178
; Sequence 178, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 178
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-178

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20
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RESULT 15

US-09-874-991C-203
; Sequence 203, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 203
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-203

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTGTGATGCT 20
|||
Db 1 TCCATGACGGTCTGTGATGCT 20

Search completed: April 17, 2006, 20:43:35
Job time : 367.5 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-40

Perfect score: 20
Sequence: 1 tccatgacggctcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 3: /SIDSS/ptodata/1/pubpna/US07_NEW_PUB.seq.*
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- 7: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 8: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 9: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 10: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 11: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 12: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 13: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 14: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 15: /SIDSS/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	8	US-10-619-279-35
2	20	100.0	20	8	US-10-435-656-40
3	20	100.0	20	10	US-10-382-822-35
4	20	100.0	20	14	US-11-127-654-727
5	20	100.0	20	14	US-11-134-918-40
6	20	100.0	20	14	US-11-031-460-40
7	20	100.0	20	14	US-11-067-587-40
8	20	100.0	20	14	US-11-099-683-71
9	20	100.0	20	14	US-11-099-683-72
10	19	95.0	20	8	US-10-497-591A-98
11	18.4	92.0	20	8	US-10-497-591A-12
12	18.4	92.0	20	8	US-10-469-561-9
13	18.4	92.0	20	8	US-10-619-279-7
14	18.4	92.0	20	8	US-10-619-279-28
15	18.4	92.0	20	8	US-10-619-279-33
16	18.4	92.0	20	8	US-10-619-279-34
17	18.4	92.0	20	8	US-10-619-279-87
18	18.4	92.0	20	8	US-10-619-279-88

19	18.4	92.0	20	8	US-10-435-656-7	Sequence 7, Appl
20	18.4	92.0	20	8	US-10-435-656-31	Sequence 31, Appl
21	18.4	92.0	20	8	US-10-435-656-33	Sequence 31, Appl
22	18.4	92.0	20	8	US-10-435-656-34	Sequence 34, Appl
23	18.4	92.0	20	8	US-10-435-656-35	Sequence 35, Appl
24	18.4	92.0	20	8	US-10-435-656-37	Sequence 37, Appl
25	18.4	92.0	20	8	US-10-435-656-38	Sequence 38, Appl
26	18.4	92.0	20	8	US-10-435-656-39	Sequence 39, Appl
27	18.4	92.0	20	8	US-10-435-656-44	Sequence 44, Appl
28	18.4	92.0	20	8	US-10-435-656-54	Sequence 54, Appl
29	18.4	92.0	20	10	US-10-382-822-7	Sequence 7, Appl
30	18.4	92.0	20	10	US-10-382-822-28	Sequence 28, Appl
31	18.4	92.0	20	10	US-10-382-822-33	Sequence 33, Appl
32	18.4	92.0	20	10	US-10-382-822-34	Sequence 34, Appl
33	18.4	92.0	20	10	US-10-382-822-87	Sequence 87, Appl
34	18.4	92.0	20	10	US-10-382-822-88	Sequence 88, Appl
35	18.4	92.0	20	12	US-11-127-797-21	Sequence 21, Appl
36	18.4	92.0	20	12	US-11-127-797-25	Sequence 25, Appl
37	18.4	92.0	20	12	US-11-127-803-21	Sequence 21, Appl
38	18.4	92.0	20	12	US-11-127-803-25	Sequence 25, Appl
39	18.4	92.0	20	12	US-11-128-127-21	Sequence 21, Appl
40	18.4	92.0	20	12	US-11-128-127-25	Sequence 25, Appl
41	18.4	92.0	20	14	US-11-025-858-2	Sequence 2, Appl
42	18.4	92.0	20	14	US-11-025-858-6	Sequence 6, Appl
43	18.4	92.0	20	14	US-11-127-654-10	Sequence 10, Appl
44	18.4	92.0	20	14	US-11-127-654-11	Sequence 11, Appl
45	18.4	92.0	20	14	US-11-127-654-377	Sequence 377, App

ALIGNMENTS

RESULT 1
US-10-619-279-35
; Sequence 35, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-35

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCTCTGATGCT 20
|||||
DB 1 TCCATGACGGTCTCTGATGCT 20

RESULT 2
US-10-435-656-40
; Sequence 40, Application US/10435656
; Publication No. US20050277604A1

GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-08-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-40

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
|||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 3
US-10-382-822-35
; Sequence 35, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-382-822-35

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
|||||

Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 4

US-11-127-654-727
; Sequence 727, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 727
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-727

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
|||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 5

US-11-134-918-40
; Sequence 40, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-40

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 6

US-11-031-460-40
; Sequence 40, Application US/11031460
; Publication No. US2005027609A1
; GENERAL INFORMATION:
; APPLICANT: Kline, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-40

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 7

US-11-067-587-40
; Sequence 40, Application US/11067587
; Publication No. US2006003955A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-40

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 8

US-11-099-683-71
; Sequence 71, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-71

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 9

US-11-099-683-72
; Sequence 72, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 72
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-72

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

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Db      1  TCCATGACGGTCCTGATGCT 20

RESULT 10
US-10-497-591A-98
; Sequence 98, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 98
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: modified_base
; LOCATION: (9)
US-10-497-591A-98

Query Match      95.0%; Score 19; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGACGGTCCTGATGCT 20
Db      1  TCCATGACGTCCTGATGCT 20

RESULT 11
US-10-497-591A-12
; Sequence 12, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-497-591A-12

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.9;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGACGGTCCTGATGCT 20
Db      1  TCCATGACGTCCTGATGCT 20

RESULT 12
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG4355USW
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-9

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.9;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGACGGTCCTGATGCT 20
Db      1  TCCATGACGTCCTGATGCT 20

RESULT 13
US-10-619-279-7
; Sequence 7, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-7

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.9;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  TCCATGACGGTCCTGATGCT 20
Db      1  TCCATGACGTCCTGATGCT 20
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Db      1  TCCATGACGGTCTCTGATGCT 20
|||||  |||||||  |||||||  |||||||  |||||||
1  TCCATGCGGTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

RESULT 14
US-10-619-279-28
; Sequence 28, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-28

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.9;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGACGGTCTCTGATGCT 20
|||||  |||||||  |||||||  |||||||  |||||||
Db      1  TCCATGCGGTCTCTGATGCT 20

RESULT 15
US-10-619-279-33
; Sequence 33, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-33

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.9;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGACGGTCTCTGATGCT 20
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-42

Perfect score: 20

Sequence: 1 tccatgtcgtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-42
2	20	100.0	20	3	US-09-030-701-4
3	20	100.0	20	3	US-09-286-098-47
4	20	100.0	20	3	US-08-960-774-37
5	20	100.0	20	3	US-09-325-193A-40
6	20	100.0	20	3	US-09-191-170-42
7	20	100.0	20	3	US-09-337-619-37
8	20	100.0	20	3	US-09-495-947-3
9	20	100.0	20	3	US-09-954-987B-92
10	20	100.0	20	3	US-09-672-126B-90
11	18.4	92.0	20	2	US-08-436-714-7
12	18.4	92.0	20	2	US-08-442-705-7
13	18.4	92.0	20	2	US-08-332-829-7
14	18.4	92.0	20	2	US-08-386-063-21
15	18.4	92.0	20	3	US-08-386-063-21
16	18.4	92.0	20	3	US-08-738-652-31
17	18.4	92.0	20	3	US-08-738-652-31
18	18.4	92.0	20	3	US-08-738-652-33
19	18.4	92.0	20	3	US-08-738-652-34
20	18.4	92.0	20	3	US-08-738-652-37
21	18.4	92.0	20	3	US-08-738-652-41
22	18.4	92.0	20	3	US-08-738-652-43
23	18.4	92.0	20	3	US-08-738-652-53
24	18.4	92.0	20	3	US-09-030-701-5
25	18.4	92.0	20	3	US-09-286-098-22

25	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
26	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
27	18.4	92.0	20	3	US-09-286-098-46	Sequence 46, Appl
28	18.4	92.0	20	3	US-09-286-098-48	Sequence 48, Appl
29	18.4	92.0	20	3	US-09-286-098-56	Sequence 56, Appl
30	18.4	92.0	20	3	US-09-286-098-57	Sequence 57, Appl
31	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
32	18.4	92.0	20	3	US-08-960-774-36	Sequence 36, Appl
33	18.4	92.0	20	3	US-08-960-774-38	Sequence 38, Appl
34	18.4	92.0	20	3	US-08-960-774-89	Sequence 89, Appl
35	18.4	92.0	20	3	US-09-082-649B-71	Sequence 71, Appl
36	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
37	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
38	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
39	18.4	92.0	20	3	US-09-325-193A-39	Sequence 39, Appl
40	18.4	92.0	20	3	US-09-325-193A-49	Sequence 49, Appl
41	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
42	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
43	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
44	18.4	92.0	20	3	US-09-191-170-41	Sequence 41, Appl
45	18.4	92.0	20	3	US-09-191-170-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-42
; Sequence 42, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 2
US-09-030-701-4
; Sequence 4, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405

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; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-4

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 3
US-09-286-098-47
; Sequence 47, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-47

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 4
US-08-960-774-37
; Sequence 37, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-960-774-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 5
US-09-325-193A-40
; Sequence 40, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 6
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US-09-191-170-42
; Sequence 42, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
|||||
DB 1 TCCATGTCGCTCCTGATGCT 20
|||||

RESULT 7
US-09-337-619-37
; Sequence 37, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-37

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
|||||
DB 1 TCCATGTCGCTCCTGATGCT 20
|||||

US-09-495-947-3
; Sequence 3, Application US/09495947
; Patent No. 6887464
; GENERAL INFORMATION:
; APPLICANT: Coleman, Timothy P.
; TITLE OF INVENTION: Advanced Antigen Presentation Platform
; FILE REFERENCE: 05270001ca
; CURRENT APPLICATION NUMBER: US/09/495,947
; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: US 60/118,526
; PRIOR FILING DATE: 1999-02-02
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: immunostimulating oligonucleotides
US-09-495-947-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
|||||
DB 1 TCCATGTCGCTCCTGATGCT 20
|||||

RESULT 9
US-09-954-987B-92
; Sequence 92, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-92

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 10

US-09-672-126B-90
; Sequence 90, Application US/09672126B

; Patent No. 6949520

; GENERAL INFORMATION:

; APPLICANT: Hartmann, Gunther L.

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Krieg, Arthur

; TITLE OF INVENTION: Methods Related to Immunostimulatory

; FILE OF INVENTION: Nucleic Acid-Induced Interferon

; FILE REFERENCE: C1039/7044

; CURRENT APPLICATION NUMBER: US/09/672,126B

; CURRENT FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: 60/156,147

; PRIOR FILING DATE: 1999-09-29

; NUMBER OF SEQ ID NOS: 169

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 90

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide

US-09-672-126B-90

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.97;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20

Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 11

US-08-436-714-7

; Sequence 7, Application US/08436714

; Patent No. 5602244

; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; FILE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

; STATE: Connecticut

; COUNTRY: USA

; ZIP: 06611

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: Macintosh

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Microsoft Word 4.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/436,714

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: George M. Yahwak

; REGISTRATION NUMBER: 26,824

; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951

; TELEFAX: (203)268-1951

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;

Best Local Similarity 95.0%; Pred. No. 6.2;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20

Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 12

US-08-442-705-7

; Sequence 7, Application US/08442705

; Patent No. 5684148

; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; FILE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

; STATE: Connecticut

; COUNTRY: USA

; ZIP: 06611

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: Macintosh

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Microsoft Word 4.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/442,705

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: George M. Yahwak

; REGISTRATION NUMBER: 26,824

; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951

; TELEFAX: (203)268-1951

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;

Best Local Similarity 95.0%; Pred. No. 6.2;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20

Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 13

US-08-332-829-7

; Sequence 7, Application US/08332829

; Patent No. 5750666

; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; FILE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce

; NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/332,829
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTCGATGCT 20
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Db 1 TCCATGTCGGTCCTCGATGCT 20

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RESULT 14
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match          92.0%;   Score 18.4;   DB 3;   Length 20;
Best Local Similarity 95.0%;   Pred. No. 6.2;
Matches 19;   Conservative 0;   Mismatches 1;   Indels

Qy 1   TCCATGTCGCTCTGATGCT 20
      |||||
Db 1   TCCATGTCGCTCTGATGCT 20

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RESULT 15
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

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Query Match	92.0%;	Score 18.4;	DB 3;	Length 20;
Best Local Similarity	95.0%;	Pred. No. 6.2;		
Matches 19;	Conservative	0;	Mismatches 1;	Indels 0;
			Gaps	0;

Qy 1 TCCATGTCGGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGGCTCCTGATGCT 20

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Job time : 56.375 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:32:13 ; Search time 366.375 Seconds
(without alignments)
451.416 Million cell updates/sec

Title: US-09-818-918-42

Perfect score: 20

Sequence: 1 tccatgtcgctctgatgct 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	20	100.0	20	3	US-09-920-313-40
5	20	100.0	20	3	US-09-818-918-42
6	20	100.0	20	3	US-09-931-583-53
7	20	100.0	20	3	US-09-954-987B-92
8	20	100.0	20	3	US-09-874-991C-42
9	20	100.0	20	3	US-09-874-991C-108
10	20	100.0	20	3	US-09-874-991C-140
11	20	100.0	20	3	US-09-874-991C-159
12	20	100.0	20	3	US-09-874-991C-180
13	20	100.0	20	3	US-09-874-991C-205
14	20	100.0	20	3	US-09-874-991C-421
15	20	100.0	20	3	US-09-874-991C-440
16	20	100.0	20	5	US-10-023-909A-40
17	20	100.0	20	5	US-10-300-247-40
18	20	100.0	20	5	US-10-161-229-42
19	20	100.0	20	6	US-10-187-264A-37
20	20	100.0	20	6	US-10-265-072-90
21	20	100.0	20	6	US-10-306-522-37
22	20	100.0	20	6	US-10-434-686-40
23	20	100.0	20	7	US-10-373-381-35

24	20	100.0	20	7	US-10-719-493-37	Sequence 37, Appl
25	20	100.0	20	7	US-10-627-331-37	Sequence 37, Appl
26	20	100.0	20	7	US-10-666-733-40	Sequence 40, Appl
27	20	100.0	20	7	US-10-743-625-42	Sequence 42, Appl
28	20	100.0	20	7	US-10-679-710-42	Sequence 42, Appl
29	20	100.0	20	7	US-10-769-282-42	Sequence 42, Appl
30	20	100.0	20	8	US-10-817-165-42	Sequence 42, Appl
31	20	100.0	20	8	US-10-857-733-3	Sequence 3, Appl
32	20	100.0	20	8	US-10-877-407-45	Sequence 45, Appl
33	20	100.0	20	8	US-10-877-369-35	Sequence 35, Appl
34	20	100.0	20	8	US-10-816-220-40	Sequence 40, Appl
35	20	100.0	20	8	US-10-876-892-35	Sequence 35, Appl
36	20	100.0	20	8	US-10-876-965-35	Sequence 35, Appl
37	20	100.0	20	8	US-10-888-886-40	Sequence 40, Appl
38	20	100.0	20	8	US-10-847-642-42	Sequence 42, Appl
39	20	100.0	20	8	US-10-888-785-42	Sequence 42, Appl
40	20	100.0	20	8	US-10-643-584-53	Sequence 53, Appl
41	20	100.0	20	8	US-10-831-775-40	Sequence 40, Appl
42	20	100.0	20	9	US-10-888-449-42	Sequence 42, Appl
43	20	100.0	20	9	US-10-894-862-45	Sequence 45, Appl
44	20	100.0	20	9	US-10-894-657-45	Sequence 45, Appl
45	20	100.0	20	9	US-10-884-852-42	Sequence 42, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-47
; Sequence 47, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-47

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCCATGTCGCTCCCTGATGCT 20
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Db 1 TCCATGTCGCTCCCTGATGCT 20

RESULT 2
US-09-800-266A-40
; Sequence 40, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A

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; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20
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RESULT 3
US-09-895-007A-40
; Sequence 40, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGTCGCTCCTGATGCT 20
    |||||

RESULT 4
US-09-920-313-40
; Sequence 40, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20
    |||||

RESULT 5
US-09-818-918-42
; Sequence 42, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-42

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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    |||||
Db 1 TCCATGTCGCTCCTGATGCT 20
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RESULT 6
US-09-931-583-53
; Sequence 53, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
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Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 11
US-09-874-991C-159
; Sequence 159, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 159
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-159

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 12
US-09-874-991C-180
; Sequence 180, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 180
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-180

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Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 13
US-09-874-991C-205
; Sequence 205, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-205

Query Match 100.0%; Score 20; DB 3; Length 20;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 14
US-09-874-991C-421
; Sequence 421, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 421
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-421

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Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 15
US-09-874-991C-440
; Sequence 440, Application US/09874991C
; Publication No. US20040052763A1

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; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 440
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-91C-440

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Perfect score: 20
Sequence: 1 tccatgtcgtctgatgct 20
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
Searched: 9281099 seqs, 2013915447 residues
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SUMMARIES						
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2	20	100.0	20	8	US-10-435-656-42	Sequence 42, Appl
3	20	100.0	20	9	US-10-533-634-29	Sequence 29, Appl
4	20	100.0	20	10	US-10-382-822-37	Sequence 37, Appl
5	20	100.0	20	14	US-11-134-918-42	Sequence 42, Appl
6	20	100.0	20	14	US-11-031-460-42	Sequence 42, Appl
7	20	100.0	20	14	US-11-067-587-42	Sequence 42, Appl
8	20	100.0	20	14	US-11-099-683-93	Sequence 93, Appl
9	20	100.0	20	14	US-11-099-683-94	Sequence 94, Appl
10	19	95.0	20	8	US-10-497-591A-72	Sequence 72, Appl
11	18.4	92.0	20	8	US-10-619-279-28	Sequence 28, Appl
12	18.4	92.0	20	8	US-10-619-279-36	Sequence 36, Appl
13	18.4	92.0	20	8	US-10-619-279-38	Sequence 38, Appl
14	18.4	92.0	20	8	US-10-619-279-88	Sequence 88, Appl
15	18.4	92.0	20	8	US-10-435-656-31	Sequence 31, Appl
16	18.4	92.0	20	8	US-10-435-656-33	Sequence 33, Appl
17	18.4	92.0	20	8	US-10-435-656-34	Sequence 34, Appl
18	18.4	92.0	20	8	US-10-435-656-37	Sequence 37, Appl

19	18.4	92.0	20	8	US-10-435-656-41	Sequence 41, Appl
20	18.4	92.0	20	8	US-10-435-656-43	Sequence 43, Appl
21	18.4	92.0	20	8	US-10-435-656-53	Sequence 53, Appl
22	18.4	92.0	20	9	US-10-533-634-30	Sequence 30, Appl
23	18.4	92.0	20	10	US-10-382-822-28	Sequence 28, Appl
24	18.4	92.0	20	10	US-10-382-822-36	Sequence 36, Appl
25	18.4	92.0	20	10	US-10-382-822-38	Sequence 38, Appl
26	18.4	92.0	20	10	US-10-382-822-88	Sequence 88, Appl
27	18.4	92.0	20	12	US-11-127-797-21	Sequence 21, Appl
28	18.4	92.0	20	12	US-11-127-803-21	Sequence 21, Appl
29	18.4	92.0	20	12	US-11-128-127-21	Sequence 21, Appl
30	18.4	92.0	20	14	US-11-127-654-8	Sequence 8, Appl
31	18.4	92.0	20	14	US-11-127-654-129	Sequence 129, App
32	18.4	92.0	20	14	US-11-127-654-377	Sequence 377, App
33	18.4	92.0	20	14	US-11-127-654-383	Sequence 383, App
34	18.4	92.0	20	14	US-11-127-654-444	Sequence 444, App
35	18.4	92.0	20	14	US-11-127-654-550	Sequence 550, App
36	18.4	92.0	20	14	US-11-127-654-732	Sequence 732, App
37	18.4	92.0	20	14	US-11-127-654-735	Sequence 735, App
38	18.4	92.0	20	14	US-11-127-654-736	Sequence 736, App
39	18.4	92.0	20	14	US-11-127-654-745	Sequence 745, App
40	18.4	92.0	20	14	US-11-127-654-747	Sequence 747, App
41	18.4	92.0	20	14	US-11-134-918-31	Sequence 31, Appl
42	18.4	92.0	20	14	US-11-134-918-33	Sequence 33, Appl
43	18.4	92.0	20	14	US-11-134-918-34	Sequence 34, Appl
44	18.4	92.0	20	14	US-11-134-918-37	Sequence 37, Appl
45	18.4	92.0	20	14	US-11-134-918-41	Sequence 41, Appl

ALIGNMENTS

RESULT 1
US-10-619-279-37
; Sequence 37, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20.
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-37

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTCCTGATGCT 20
RESULT 2
US-10-435-656-42
; Sequence 42, Application US/10435656
; Publication No. US20050277604A1


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Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 6
US-11-031-460-42
; Sequence 42, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-42

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
    |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 7
US-11-067-587-42
; Sequence 42, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20

Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
    |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 8
US-11-099-683-93
; Sequence 93, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 93
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-93

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
    |||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 9
US-11-099-683-94
; Sequence 94, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-94

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 10
US-10-497-591A-72
; Sequence 72, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALGNA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 72
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: modified_base
; LOCATION: (9)
; OTHER INFORMATION: n = inosine or uracil
US-10-497-591A-72

Query Match 95.0%; Score 19; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 11
US-10-619-279-28
; Sequence 28, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide

US-10-619-279-28

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 12
US-10-619-279-36
; Sequence 36, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-36

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 13
US-10-619-279-38
; Sequence 38, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide

; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-38

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 14

US-10-619-279-88
; Sequence 88, Application US/10619279
; Publication No. US20050267057A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 88
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-88

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGCTCCTGATGCT 20

RESULT 15

US-10-435-656-31

; Sequence 31, Application US/10435656
; Publication No. US20050277604A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Steinberg, Alfred D.
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-31

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-43

Perfect score: 20

Sequence: 1 tccatgctgctctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-43
2	20	100.0	20	3	US-08-738-652-53
3	20	100.0	20	3	US-09-030-701-5
4	20	100.0	20	3	US-09-286-098-48
5	20	100.0	20	3	US-09-286-098-56
6	20	100.0	20	3	US-09-286-098-57
7	20	100.0	20	3	US-08-960-774-38
8	20	100.0	20	3	US-09-082-649B-71
9	20	100.0	20	3	US-09-325-193A-49
10	20	100.0	20	3	US-09-191-170-43
11	20	100.0	20	3	US-09-191-170-51
12	20	100.0	20	3	US-09-337-619-38
13	20	100.0	20	3	US-09-965-101-71
14	20	100.0	20	3	US-09-495-947-4
15	20	100.0	20	3	US-09-954-987B-96
16	19	95.0	20	3	US-09-030-701-25
17	19	95.0	20	3	US-08-960-774-44
18	19	95.0	20	3	US-09-082-649B-72
19	19	95.0	20	3	US-09-337-619-44
20	19	95.0	20	3	US-09-965-101-72
21	18.4	92.0	20	2	US-08-436-714-7
22	18.4	92.0	20	2	US-08-442-705-7
23	18.4	92.0	20	2	US-08-332-829-7
24	18.4	92.0	20	2	US-09-133-774-11

25	18.4	92.0	20	3	US-08-386-063-21	Sequence 21, Appl
26	18.4	92.0	20	3	US-08-386-063-25	Sequence 25, Appl
27	18.4	92.0	20	3	US-09-303-862-11	Sequence 11, Appl
28	18.4	92.0	20	3	US-08-386-063-21	Sequence 21, Appl
29	18.4	92.0	20	3	US-08-386-063-25	Sequence 25, Appl
30	18.4	92.0	20	3	US-08-738-652-7	Sequence 7, Appl
31	18.4	92.0	20	3	US-08-738-652-31	Sequence 31, Appl
32	18.4	92.0	20	3	US-08-738-652-33	Sequence 33, Appl
33	18.4	92.0	20	3	US-08-738-652-34	Sequence 34, Appl
34	18.4	92.0	20	3	US-08-738-652-35	Sequence 35, Appl
35	18.4	92.0	20	3	US-08-738-652-37	Sequence 37, Appl
36	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appl
37	18.4	92.0	20	3	US-08-738-652-42	Sequence 42, Appl
38	18.4	92.0	20	3	US-08-738-652-44	Sequence 44, Appl
39	18.4	92.0	20	3	US-08-738-652-54	Sequence 54, Appl
40	18.4	92.0	20	3	US-09-030-701-4	Sequence 4, Appl
41	18.4	92.0	20	3	US-09-286-098-22	Sequence 22, Appl
42	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
43	18.4	92.0	20	3	US-09-286-098-24	Sequence 24, Appl
44	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
45	18.4	92.0	20	3	US-09-286-098-46	Sequence 46, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-43
; Sequence 43, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 2
US-08-738-652-53
; Sequence 53, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07

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; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-53

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 3
US-09-030-701-5
; Sequence 5, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; PRIOR FILING DATE: 1998-02-25
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-5

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 4
US-09-286-098-48
; Sequence 48, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence

; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-48

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 5
US-09-286-098-56
; Sequence 56, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-56

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 6
US-09-286-098-57
; Sequence 57, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5C
US-09-286-098-57

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7

US-08-960-774-38
; Sequence 38, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:

; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:

TELEPHONE: 619/678-5070

TELEFAX: 619/678-5099

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-08-960-774-38

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 8

US-09-082-649B-71

; Sequence 71, Application US/09082649B

; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong

; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B

; CURRENT FILING DATE: 1998-05-20

; PRIOR FILING DATE: 1997-05-20

; PRIOR APPLICATION NUMBER: US 60/047,233

; PRIOR FILING DATE: 1997-05-20

; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 71

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthetic oligonucleotide

US-09-082-649B-71

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20

Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9

US-09-325-193A-49

; Sequence 49, Application US/09325193A

; Patent No. 6406705

; GENERAL INFORMATION:

; APPLICANT: Davis, Heather L.

; APPLICANT: Schorr, Joachim

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Use of Nucleic Acids Containing

; FILE REFERENCE: C1039/7025/HCL

; CURRENT APPLICATION NUMBER: US/09/325,193A

; CURRENT FILING DATE: 1999-06-03

; PRIOR FILING DATE: 1998-09-16

; PRIOR APPLICATION NUMBER: PCT/US98/04703

; PRIOR FILING DATE: 1998-03-10

; PRIOR APPLICATION NUMBER: US 60/040,376

; NUMBER OF SEQ ID NOS: 98

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 49

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide

US-09-325-193A-49

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20

Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 10

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US-09-191-170-43
; Sequence 43, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-43

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
Db      1  TCCATGTCGTTCCCTGATGCT 20

RESULT 11
US-09-191-170-51
; Sequence 51, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-191-170-51

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
Db      1  TCCATGTCGTTCCCTGATGCT 20

US-09-191-170-51
; Sequence 51, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-191-170-51

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
Db      1  TCCATGTCGTTCCCTGATGCT 20
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Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
Db      1  TCCATGTCGTTCCCTGATGCT 20

RESULT 12
US-09-337-619-38
; Sequence 38, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-38

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
Db      1  TCCATGTCGTTCCCTGATGCT 20

RESULT 13
US-09-965-101-71
; Sequence 71, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAI)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-71

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGTTCTCTGATGCT 20
|||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 14

US-09-495-947-4
; Sequence 4, Application US/09495947
; Patent No. 6887464
; GENERAL INFORMATION:
; APPLICANT: Coleman, Timothy P.
; APPLICANT: Peterson, Darrell L.
; TITLE OF INVENTION: Advanced Antigen Presentation Platform
; FILE REFERENCE: 05270001a
; CURRENT APPLICATION NUMBER: US/09/495,947
; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: US 60/118,526
; PRIOR FILING DATE: 1999-02-02
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Immunostimulating oligonucleotides
US-09-495-947-4

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
|||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 15

US-09-954-987B-96
; Sequence 96, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 96
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-96

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

Search completed: April 17, 2006, 18:04:52
Job time : 56.375 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:32:13 ; Search time 366.375 Seconds
(without alignments)
451.416 Million cell updates/sec

Title: US-09-818-918-43

Perfect score: 20

Sequence: 1 tccatgtcgttctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA Main:

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq*
- 2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq*
- 3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq*
- 4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq*
- 5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq*
- 6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq*
- 7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq*
- 8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq*
- 9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq*
- 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-09-824-468-48
2	20	100.0	20	3	US-09-824-468-56
3	20	100.0	20	3	US-09-824-468-57
4	20	100.0	20	3	US-09-800-266A-49
5	20	100.0	20	3	US-09-895-007A-49
6	20	100.0	20	3	US-09-920-313-49
7	20	100.0	20	3	US-09-888-326-61
8	20	100.0	20	3	US-09-888-326-62
9	20	100.0	20	3	US-09-818-918-43
10	20	100.0	20	3	US-09-818-918-53
11	20	100.0	20	3	US-09-931-583-57
12	20	100.0	20	3	US-09-776-479-136
13	20	100.0	20	3	US-09-776-479-759
14	20	100.0	20	3	US-09-954-987B-96
15	20	100.0	20	3	US-09-967-464-6
16	20	100.0	20	3	US-09-874-991C-43
17	20	100.0	20	3	US-09-874-991C-109
18	20	100.0	20	3	US-09-874-991C-132
19	20	100.0	20	3	US-09-874-991C-160
20	20	100.0	20	3	US-09-874-991C-181
21	20	100.0	20	3	US-09-874-991C-206
22	20	100.0	20	3	US-09-874-991C-422
23	20	100.0	20	3	US-09-874-991C-441

c	24	20	100.0	20	3	US-09-776-479-136	Sequence 136, App
	25	20	100.0	20	3	US-09-776-479-759	Sequence 759, App
	26	20	100.0	20	3	US-09-965-101-71	Sequence 71, Appl
	27	20	100.0	20	5	US-10-023-909A-49	Sequence 49, Appl
	28	20	100.0	20	5	US-10-074-956-2	Sequence 2, Appl
	29	20	100.0	20	5	US-10-112-653-8	Sequence 8, Appl
c	30	20	100.0	20	5	US-10-112-653-129	Sequence 129, App
	31	20	100.0	20	5	US-10-112-653-732	Sequence 732, App
c	32	20	100.0	20	5	US-10-017-995-136	Sequence 136, App
	33	20	100.0	20	5	US-10-017-995-759	Sequence 759, App
	34	20	100.0	20	5	US-10-300-247-49	Sequence 49, Appl
	35	20	100.0	20	5	US-10-161-229-43	Sequence 43, Appl
	36	20	100.0	20	6	US-10-187-264A-38	Sequence 38, Appl
	37	20	100.0	20	6	US-10-265-072-94	Sequence 94, Appl
c	38	20	100.0	20	6	US-10-306-522-38	Sequence 38, Appl
	39	20	100.0	20	6	US-10-314-578-136	Sequence 136, App
	40	20	100.0	20	6	US-10-314-578-759	Sequence 759, App
	41	20	100.0	20	6	US-10-434-696-49	Sequence 49, Appl
	42	20	100.0	20	7	US-10-373-381-43	Sequence 43, Appl
	43	20	100.0	20	7	US-10-373-381-44	Sequence 44, Appl
	44	20	100.0	20	7	US-10-719-493-38	Sequence 38, Appl
	45	20	100.0	20	7	US-10-627-331-38	Sequence 38, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-48
; Sequence 48, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-48

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 2
US-09-824-468-56
; Sequence 56, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468

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; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-56

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 3
US-09-824-468-57
; Sequence 57, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-824-468-57

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 4
US-09-800-266A-49
; Sequence 49, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214

; CURRENT FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 5
US-09-895-007A-49
; Sequence 49, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 6
US-09-920-313-49
; Sequence 49, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7

US-09-888-326-62/c
; Sequence 62, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:

; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-62

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 20 TCCATGTCGTTCTCTGATGCT 1

RESULT 8

US-09-888-326-611
; Sequence 611, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:

; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 611
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature

; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-611

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9

US-09-818-918-43
; Sequence 43, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 10

US-09-818-918-53
; Sequence 53, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: Synthetic oligonucleotide
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-818-918-53

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 11
US-09-931-583-57
; Sequence 57, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931.583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-57

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 12
US-09-776-479-136/c
; Sequence 136, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776.479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-136

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
Db 20 TCCATGTCGTTCCCTGATGCT 1

RESULT 13
US-09-776-479-759
; Sequence 759, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776.479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 759
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-759

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 14
US-09-954-987B-96
; Sequence 96, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954.987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 96
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-96

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCTCGATGCT 20
Db      1 TCCATGTCGTTCTCGATGCT 20

RESULT 15
US-09-967-464-6
; Sequence 6, Application US/09967464
; Publication NO. US20030138453A1
; GENERAL INFORMATION:
; APPLICANT: O'Hagan, Derek
; APPLICANT: Otten, Gillis
; APPLICANT: Donnelly, John J.
; APPLICANT: Polo, John M.
; APPLICANT: Barnett, Susan
; APPLICANT: Singh, Mamohan
; APPLICANT: Ulmer, Jeffrey
; APPLICANT: Dubensky, Jr. Thomas W.
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
; FILE REFERENCE: PPI6269.004
; CURRENT APPLICATION NUMBER: US/09/967,464
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/236,105
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/315,905
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial sequence is synthesized
US-09-967-464-6

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCTCGATGCT 20
Db      1 TCCATGTCGTTCTCGATGCT 20

Search completed: April 17, 2006, 20:43:34
Job time : 367.5 secs
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-43

Perfect score: 20
Sequence: 1 tccatgctgctctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA New.*

- 1: /SIDSS/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 2: /SIDSS/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 3: /SIDSS/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 4: /SIDSS/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 5: /SIDSS/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 6: /SIDSS/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 7: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 8: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 9: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 10: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 11: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 12: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 13: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 14: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 15: /SIDSS/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	8	US-10-619-279-38
2	20	100.0	20	8	US-10-435-656-43
3	20	100.0	20	8	US-10-435-656-53
4	20	100.0	20	9	US-10-533-634-30
5	20	100.0	20	10	US-10-382-822-38
6	20	100.0	20	14	US-11-127-654-8
7	20	100.0	20	14	US-11-127-654-129
8	20	100.0	20	14	US-11-127-654-732
9	20	100.0	20	14	US-11-134-918-43
10	20	100.0	20	14	US-11-134-918-53
11	20	100.0	20	14	US-11-031-460-43
12	20	100.0	20	14	US-11-031-460-53
13	20	100.0	20	14	US-11-019-955-2
14	20	100.0	20	14	US-11-067-587-43
15	20	100.0	20	14	US-11-067-587-53
16	20	100.0	20	14	US-11-099-683-101
17	20	100.0	20	14	US-11-099-683-102
18	20	100.0	20	14	US-11-099-683-103

19	20	100.0	28	14	US-11-127-654-306	Sequence 306, Appl
20	19	95.0	20	8	US-10-497-591A-73	Sequence 73, Appl
21	19	95.0	20	8	US-10-619-279-44	Sequence 44, Appl
22	19	95.0	20	10	US-10-382-822-44	Sequence 44, Appl
23	19	95.0	20	14	US-11-127-654-185	Sequence 185, Appl
24	19	95.0	20	14	US-11-099-683-105	Sequence 105, Appl
25	18.4	92.0	20	8	US-10-497-591A-12	Sequence 12, Appl
26	18.4	92.0	20	8	US-10-469-561-9	Sequence 9, Appl
27	18.4	92.0	20	8	US-10-619-279-7	Sequence 7, Appl
28	18.4	92.0	20	8	US-10-619-279-28	Sequence 28, Appl
29	18.4	92.0	20	8	US-10-619-279-36	Sequence 36, Appl
30	18.4	92.0	20	8	US-10-619-279-37	Sequence 37, Appl
31	18.4	92.0	20	8	US-10-435-656-7	Sequence 7, Appl
32	18.4	92.0	20	8	US-10-435-656-31	Sequence 31, Appl
33	18.4	92.0	20	8	US-10-435-656-33	Sequence 33, Appl
34	18.4	92.0	20	8	US-10-435-656-34	Sequence 34, Appl
35	18.4	92.0	20	8	US-10-435-656-35	Sequence 35, Appl
36	18.4	92.0	20	8	US-10-435-656-37	Sequence 37, Appl
37	18.4	92.0	20	8	US-10-435-656-41	Sequence 41, Appl
38	18.4	92.0	20	8	US-10-435-656-42	Sequence 42, Appl
39	18.4	92.0	20	8	US-10-435-656-44	Sequence 44, Appl
40	18.4	92.0	20	8	US-10-435-656-54	Sequence 54, Appl
41	18.4	92.0	20	9	US-10-533-634-29	Sequence 29, Appl
42	18.4	92.0	20	10	US-10-382-822-7	Sequence 7, Appl
43	18.4	92.0	20	10	US-10-382-822-28	Sequence 28, Appl
44	18.4	92.0	20	10	US-10-382-822-36	Sequence 36, Appl
45	18.4	92.0	20	10	US-10-382-822-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1
US-10-619-279-38
; Sequence 38, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-38

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 2
US-10-435-656-43
; Sequence 43, Application US/10435656
; Publication No. US20050277604A1

; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-43

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
|||||

RESULT 3
US-10-435-656-53
; Sequence 53, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-10-435-656-53

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
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RESULT 4

US-10-533-634-30
; Sequence 30, Application US/10533634
; Publication No. US20060019239A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
; APPLICANT: SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
; APPLICANT: Klinman, Dennis M.
; APPLICANT: Ivins, Bruce
; APPLICANT: Verhelvi, Daniela
; TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS WITH
; TITLE OF INVENTION: IMMUNOSTIMULATORY CPG OLIGONUCLEOTIDES
; FILE REFERENCE: 4239-67021-06
; CURRENT APPLICATION NUMBER: US/10/533,634
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: PCT/US2003/034523
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/422,964
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: K oligonucleotide
US-10-533-634-30

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
|||||

RESULT 5

US-10-382-822-38
; Sequence 38, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-382-822-38

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Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 6
US-11-127-654-8
; Sequence 8, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8) (8)
; OTHER INFORMATION: m5c
US-11-127-654-8

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7
US-11-127-654-129/c
; Sequence 129, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
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US-11-127-654-129
Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
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Db 20 TCCATGTCGTTCTCTGATGCT 1

RESULT 8
US-11-127-654-732
; Sequence 732, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 732
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-732

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9
US-11-134-918-43
; Sequence 43, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
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; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-43

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 10
US-11-134-918-53
; Sequence 53, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-11-134-918-53

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 11
US-11-031-460-43
; Sequence 43, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
```

```
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-43

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 12
US-11-031-460-53
; Sequence 53, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-11-031-460-53

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 13
US-11-019-955-2
; Sequence 2, Application US/11019955
; Publication No. US20050282763A1
; GENERAL INFORMATION:
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; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: METHODS OF TREATING BLADDER DISORDERS
; FILE REFERENCE: 08191-022001
; CURRENT APPLICATION NUMBER: US/11/019,955
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: US/10/074,956
; PRIOR FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/268,175
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; TYPE: DNA
; LENGTH: 20
; ORGANISM: Homo sapiens
US-11-019-955-2

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 14
US-11-067-587-43
; Sequence 43, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-43

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 15
US-11-067-587-53
; Sequence 53, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; APPLICANT: Kline, Joel N.

; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-11-067-587-53

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-44

Perfect score: 20
Sequence: 1 tccatgacgttctctgatgct 20

Scoring table: IDENTIFY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H COMB.seq: *
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq: *
7: /cgn2_6/ptodata/1/ina/PP COMB.seq: *
8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	2	US-09-133-774-11
2	20	100.0	20	3	US-08-386-063-25
3	20	100.0	20	3	US-09-303-862-11
4	20	100.0	20	3	US-08-386-063-25
5	20	100.0	20	3	US-08-738-652-7
6	20	100.0	20	3	US-08-738-652-35
7	20	100.0	20	3	US-08-738-652-44
8	20	100.0	20	3	US-08-738-652-54
9	20	100.0	20	3	US-09-286-098-24
10	20	100.0	20	3	US-08-960-774-7
11	20	100.0	20	3	US-09-082-649B-68
12	20	100.0	20	3	US-09-082-649B-79
13	20	100.0	20	3	US-09-325-193A-19
14	20	100.0	20	3	US-09-191-170-24
15	20	100.0	20	3	US-09-171-425-5
16	20	100.0	20	3	US-09-171-425-14
17	20	100.0	20	3	US-09-690-921-5
18	20	100.0	20	3	US-09-791-500-7
19	20	100.0	20	3	US-09-337-619-7
20	20	100.0	20	3	US-09-965-101-68
21	20	100.0	20	3	US-09-965-101-79
22	20	100.0	20	3	US-10-764-718-2
23	20	100.0	20	3	US-09-954-987B-84
24	20	100.0	20	3	US-09-954-987B-207

25	20	100.0	20	3	US-09-672-126B-84	Sequence 84, Appl
26	20	100.0	20	3	US-08-848-229-2	Sequence 2, Appl
27	20	100.0	20	3	US-09-022-965-2	Sequence 2, Appl
28	19	95.0	19	3	US-09-770-602-1	Sequence 1, Appl
29	19	95.0	19	3	US-09-770-602-2	Sequence 2, Appl
30	19	95.0	19	3	US-09-770-602-3	Sequence 3, Appl
31	19	95.0	19	3	US-09-770-602-4	Sequence 4, Appl
32	19	95.0	19	3	US-09-770-602-5	Sequence 5, Appl
33	19	95.0	19	3	US-09-770-602-6	Sequence 6, Appl
34	19	95.0	19	3	US-09-770-602-7	Sequence 7, Appl
35	19	95.0	19	3	US-09-770-602-8	Sequence 8, Appl
36	18.4	92.0	20	3	US-08-738-652-3	Sequence 3, Appl
37	18.4	92.0	20	3	US-08-738-652-9	Sequence 9, Appl
38	18.4	92.0	20	3	US-08-738-652-40	Sequence 40, Appl
39	18.4	92.0	20	3	US-08-738-652-43	Sequence 43, Appl
40	18.4	92.0	20	3	US-08-738-652-45	Sequence 45, Appl
41	18.4	92.0	20	3	US-08-738-652-46	Sequence 46, Appl
42	18.4	92.0	20	3	US-08-738-652-53	Sequence 53, Appl
43	18.4	92.0	20	3	US-09-030-701-5	Sequence 5, Appl
44	18.4	92.0	20	3	US-09-286-098-45	Sequence 45, Appl
45	18.4	92.0	20	3	US-09-286-098-48	Sequence 48, Appl

ALIGNMENTS

RESULT 1
US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kda cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11

Query Match 100.0% Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred.No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 2
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON

```
;; STATE: MASSACHUSETTS
;; COUNTRY: USA
;; ZIP: 02109-1875
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: ASCII text
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/386,063
;; FILING DATE:
;; CLASSIFICATION: 424
;; ATTORNEY/AGENT INFORMATION:
;; NAME: ARNOLD, BETH E.
;; REGISTRATION NUMBER: 35,430
;; REFERENCE/DOCKET NUMBER: UIZ-013CP
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617)227-7400
;; TELEFAX: (617)227-5941
;; INFORMATION FOR SEQ ID NO: 25:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 20 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
US-08-386-063-25
Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 3
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11
Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20
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RESULT 4
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25
Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 5
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7
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Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 6
US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-35

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 7
US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||

Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 8
US-08-738-652-54
; Sequence 54, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-54

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 9
US-09-286-098-24
; Sequence 24, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 10
US-08-960-774-7
; Sequence 7, Application US/08960774

; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-960-774-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGCT 20
|||||
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 11

US-09-082-649B-68
; Sequence 68, Application US/09082649B
; Patent No. 6339068

; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-082-649B-68

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGCT 20
|||||
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 12

US-09-082-649B-79
; Sequence 79, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-79

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGCT 20
|||||
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 13

US-09-325-193A-19
; Sequence 19, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10

; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-19

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGACGTTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 14

US-09-191-170-24
; Sequence 24, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 15

US-09-171-425-5
; Sequence 5, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:
; APPLICANT: Schorr, Joachim
; APPLICANT: Baker, Henry J.
; APPLICANT: Smith, Bruce F.
; TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
; FILE REFERENCE: 08909/003001
; CURRENT APPLICATION NUMBER: US/09/171,425A
; CURRENT FILING DATE: 1998-10-19
; EARLIER APPLICATION NUMBER: PCT/EP97/01943
; EARLIER FILING DATE: 1996-04-19
; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-5

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGACGTTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTGATGCT 20

Search completed: April 17, 2006, 18:04:52
Job time : 57.375 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:32:13 ; Search time 366.375 Seconds
(without alignments)
451.416 Million cell updates/sec

Title: US-09-818-918-44

Perfect score: 20

Sequence: 1 tccatgacgttcctgatgct 20

Scoring table:

IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA Main:

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4: /cgn2_6/ptodata/1/pubna/US09B_PUBCOMB.seq.*
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10: /cgn2_6/ptodata/1/pubna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-09-791-500-7
2	20	100.0	20	3	US-09-824-468-24
3	20	100.0	20	3	US-09-800-266A-19
4	20	100.0	20	3	US-09-846-091-4
5	20	100.0	20	3	US-09-895-007A-19
6	20	100.0	20	3	US-09-920-313-19
7	20	100.0	20	3	US-09-415-142-25
8	20	100.0	20	3	US-09-888-326-127
9	20	100.0	20	3	US-09-888-326-566
10	20	100.0	20	3	US-09-888-326-567
11	20	100.0	20	3	US-09-818-918-7
12	20	100.0	20	3	US-09-818-918-35
13	20	100.0	20	3	US-09-818-918-44
14	20	100.0	20	3	US-09-818-918-54
15	20	100.0	20	3	US-09-931-583-25
16	20	100.0	20	3	US-09-931-583-48
17	20	100.0	20	3	US-09-776-479-758
18	20	100.0	20	3	US-09-776-479-806
19	20	100.0	20	3	US-09-776-479-865
20	20	100.0	20	3	US-09-954-987B-84
21	20	100.0	20	3	US-09-954-987B-207
22	20	100.0	20	3	US-09-967-464-7
23	20	100.0	20	3	US-09-874-991C-27

ALIGNMENTS

RESULT 1

US-09-791-500-7

; Sequence 7, Application US/09791500

; Patent No. US20020042387A1

; GENERAL INFORMATION:

; APPLICANT: Raz, Eyal

; APPLICANT: Rachmylewitz, Daniel

; TITLE OF INVENTION: Method for Treating Inflammatory Bowel

; TITLE OF INVENTION: Disease and Other Forms of Gastrointestinal Inflammation.

; FILE REFERENCE: 6510-202US1

; CURRENT APPLICATION NUMBER: US/09/791.500

; CURRENT FILING DATE: 2001-02-22

; NUMBER OF SEQ ID NOS: 39

; SOFTWARE: fastseq for Windows Version 4.0

; SEQ ID NO 7

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthetic polynucleotide sequence

US-09-791-500-7

Query Match Best Local Similarity 100.0%; Score 20; DB 3; Length 20;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20

Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 2

US-09-824-468-24

; Sequence 24, Application US/09824468

; Patent No. US20020064515A1

; GENERAL INFORMATION:

; APPLICANT: Weiner, George

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Methods and Products for Stimulating the

; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and

; FILE REFERENCE: C1039/7026/HCL

; CURRENT APPLICATION NUMBER: US/09/824.468

; CURRENT FILING DATE: 2001-04-02

; PRIOR APPLICATION NUMBER: 09/286,098

; PRIOR FILING DATE: 1999-04-02

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; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-24

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 3
US-09-800-266A-19
; Sequence 19, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-19

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 4
US-09-846-091-4
; Sequence 4, Application US/09846091
; Patent No. US20020165176A1
; GENERAL INFORMATION:
; APPLICANT: HAYNES, Joel R.
; APPLICANT: MACKLIN, Michael D.
; APPLICANT: PAYNE, Lendon G.
; TITLE OF INVENTION: NUCLEIC ACID IMMUNIZATION
; FILE REFERENCE: APP40
; CURRENT APPLICATION NUMBER: US/09/846,091
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US/09/561,951
; PRIOR FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-846-091-4

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 5
US-09-895-007A-19
; Sequence 19, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schettler, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-19

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 6
US-09-920-313-19
; Sequence 19, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-19

Query Match      100.0%; Score 20; DB 3; Length 20;
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Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 7
US-09-415-142-25
; Sequence 25, Application US/09415142
; Publication No. US20030026782A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kilman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/09/415,142
; CURRENT FILING DATE: 1999-10-09
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-415-142-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 8
US-09-888-326-127
; Sequence 127, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 127
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc.feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
; NAME/KEY: misc.feature
; LOCATION: (1)...(1)
; OTHER INFORMATION: biotinylated at 5' end
US-09-888-326-127

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 9
US-09-888-326-566
; Sequence 566, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 566
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc.feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-566

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 10
US-09-888-326-567
; Sequence 567, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 567
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc.feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-567

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 11

US-09-818-918-7
; Sequence 7, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 12

US-09-818-918-35
; Sequence 35, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-35

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 13

US-09-818-918-44
; Sequence 44, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 14

US-09-818-918-54
; Sequence 54, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-54

; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-54

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 15

US-09-931-583-25
; Sequence 25, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053(HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGATGCT 20

Search completed: April 17, 2006, 20:43:33
Job time : 366.5 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-44

Perfect score: 20
Sequence: 1 tccatgagcttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 3: /SIDSS/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 4: /SIDSS/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
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- 9: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq2.*
- 10: /SIDSS/ptodata/1/pubpna/US10_NEW_PUB.seq3.*
- 11: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 12: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq2.*
- 13: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq3.*
- 14: /SIDSS/ptodata/1/pubpna/US11_NEW_PUB.seq4.*
- 15: /SIDSS/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	8	US-10-497-591A-12
2	20	100.0	20	8	US-10-469-561-9
3	20	100.0	20	8	US-10-619-279-7
4	20	100.0	20	8	US-10-435-656-7
5	20	100.0	20	8	US-10-435-656-35
6	20	100.0	20	8	US-10-435-656-44
7	20	100.0	20	8	US-10-435-656-54
8	20	100.0	20	10	US-10-382-822-7
9	20	100.0	20	12	US-11-127-797-25
10	20	100.0	20	12	US-11-127-803-25
11	20	100.0	20	12	US-11-128-127-25
12	20	100.0	20	14	US-11-025-858-2
13	20	100.0	20	14	US-11-025-858-6
14	20	100.0	20	14	US-11-127-654-10
15	20	100.0	20	14	US-11-127-654-11
16	20	100.0	20	14	US-11-127-654-731
17	20	100.0	20	14	US-11-127-654-779
18	20	100.0	20	14	US-11-127-654-836

19	20	100.0	20	14	US-11-134-918-7	Sequence 7, Appli
20	20	100.0	20	14	US-11-134-918-35	Sequence 35, Appli
21	20	100.0	20	14	US-11-134-918-44	Sequence 44, Appli
22	20	100.0	20	14	US-11-134-918-54	Sequence 54, Appli
23	20	100.0	20	14	US-11-031-460-7	Sequence 7, Appli
24	20	100.0	20	14	US-11-031-460-35	Sequence 35, Appli
25	20	100.0	20	14	US-11-031-460-44	Sequence 44, Appli
26	20	100.0	20	14	US-11-031-460-54	Sequence 54, Appli
27	20	100.0	20	14	US-11-067-587-7	Sequence 7, Appli
28	20	100.0	20	14	US-11-067-587-35	Sequence 35, Appli
29	20	100.0	20	14	US-11-067-587-54	Sequence 54, Appli
30	20	100.0	20	14	US-11-067-587-75	Sequence 75, Appli
31	20	100.0	20	14	US-11-099-683-76	Sequence 76, Appli
32	20	100.0	20	14	US-11-099-683-77	Sequence 77, Appli
33	20	100.0	20	14	US-11-099-683-78	Sequence 78, Appli
34	20	100.0	20	14	US-11-099-683-79	Sequence 79, Appli
35	20	100.0	20	14	US-11-099-683-80	Sequence 80, Appli
36	20	100.0	20	14	US-11-099-683-81	Sequence 81, Appli
37	20	100.0	20	14	US-11-127-654-200	Sequence 200, App
38	20	100.0	20	14	US-10-925-872-45	Sequence 45, Appli
39	19	95.0	19	14	US-11-173-938-89	Sequence 89, Appli
40	19	95.0	19	14	US-11-173-938-90	Sequence 90, Appli
41	19	95.0	19	14	US-11-173-938-91	Sequence 91, Appli
42	19	95.0	19	14	US-11-173-938-92	Sequence 92, Appli
43	19	95.0	19	14	US-11-173-938-93	Sequence 93, Appli
44	19	95.0	19	14	US-11-173-938-94	Sequence 94, Appli
45	19	95.0	19	14	US-11-173-938-94	Sequence 94, Appli

ALIGNMENTS

RESULT 1
US-10-497-591A-12
; Sequence 12, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGVED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:04505
; CURRENT APPLICATION NUMBER: US/10497591A
; PRIOR FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer

US-10-497-591A-12
Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGAGGTTCCCTGATGCT 20
Db 1 TCCATGAGGTTCCCTGATGCT 20

RESULT 2
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1

; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG4355USW
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-9

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 3
US-10-619-279-7
; Sequence 7, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-7

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 4
US-10-435-656-7
; Sequence 7, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis

; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-7

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 5
US-10-435-656-35
; Sequence 35, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-35

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 6
US-10-435-656-44
; Sequence 44, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 10/435,656
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-44

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 7
US-10-435-656-54
; Sequence 54, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-54

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 8
US-10-382-822-7

; Sequence 7, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-382-822-7

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 9
US-11-127-797-25
; Sequence 25, Application US/11127797
; Publication No. US20050245477A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,797
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-797-25

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:09
Job time : 425.125 secs

GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)..(8)
; OTHER INFORMATION: m5c
US-11-127-654-10

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 15
US-11-127-654-11
; Sequence 11, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (13)..(13)
; OTHER INFORMATION: m5c
US-11-127-654-11

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 14:43:57 ; Search time 56.375 Seconds
(without alignments)
630.621 Million cell updates/sec

Title: US-09-818-918-45

Perfect score: 20

Sequence: 1 tccataagcttcctgatgct 20

Scoring table:

IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq:
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4: /cgn2_6/ptodata/1/ina/6B COMB.seq:
5: /cgn2_6/ptodata/1/ina/H COMB.seq:
6: /cgn2_6/ptodata/1/ina/PCRTUS COMB.seq:
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:
9: /cgn2_6/ptodata/1/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-3
2	20	100.0	20	3	US-08-738-652-45
3	20	100.0	20	3	US-09-286-098-49
4	20	100.0	20	3	US-08-960-774-3
5	20	100.0	20	3	US-09-325-193A-43
6	20	100.0	20	3	US-09-191-170-44
7	20	100.0	20	3	US-09-296-477-18
8	20	100.0	20	3	US-09-337-619-3
9	20	100.0	20	3	US-09-954-987B-77
10	20	100.0	20	3	US-09-672-126B-77
11	18.4	92.0	20	2	US-09-133-774-11
12	18.4	92.0	20	3	US-08-386-063-25
13	18.4	92.0	20	3	US-09-303-862-11
14	18.4	92.0	20	3	US-08-386-063-25
15	18.4	92.0	20	3	US-08-738-652-7
16	18.4	92.0	20	3	US-08-738-652-35
17	18.4	92.0	20	3	US-08-738-652-44
18	18.4	92.0	20	3	US-08-738-652-54
19	18.4	92.0	20	3	US-09-286-098-24
20	18.4	92.0	20	3	US-08-960-774-7
21	18.4	92.0	20	3	US-08-960-774-88
22	18.4	92.0	20	3	US-09-082-649B-68
23	18.4	92.0	20	3	US-09-082-649B-79
24	18.4	92.0	20	3	US-09-325-193A-19

25	18.4	92.0	20	3	US-09-191-170-24	Sequence 24, Appl
26	18.4	92.0	20	3	US-09-171-425-5	Sequence 5, Appl
27	18.4	92.0	20	3	US-09-171-425-14	Sequence 14, Appl
28	18.4	92.0	20	3	US-09-690-921-5	Sequence 5, Appl
29	18.4	92.0	20	3	US-09-791-500-7	Sequence 7, Appl
30	18.4	92.0	20	3	US-09-337-619-7	Sequence 7, Appl
31	18.4	92.0	20	3	US-09-965-101-68	Sequence 68, Appl
32	18.4	92.0	20	3	US-09-965-101-79	Sequence 79, Appl
33	18.4	92.0	20	3	US-10-764-718-2	Sequence 2, Appl
34	18.4	92.0	20	3	US-09-954-987B-84	Sequence 84, Appl
35	18.4	92.0	20	3	US-09-954-987B-207	Sequence 207, App
36	18.4	92.0	20	3	US-09-672-126B-84	Sequence 84, Appl
37	18.4	92.0	29	3	US-08-848-229-2	Sequence 2, Appl
38	18.4	92.0	29	3	US-09-022-965-2	Sequence 2, Appl
39	17.4	87.0	19	3	US-09-770-602-1	Sequence 1, Appl
40	17.4	87.0	19	3	US-09-770-602-2	Sequence 2, Appl
41	17.4	87.0	19	3	US-09-770-602-3	Sequence 3, Appl
42	17.4	87.0	19	3	US-09-770-602-4	Sequence 4, Appl
43	17.4	87.0	19	3	US-09-770-602-5	Sequence 5, Appl
44	17.4	87.0	19	3	US-09-770-602-6	Sequence 6, Appl
45	17.4	87.0	19	3	US-09-770-602-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1

US-08-738-652-3
; Sequence 3, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCTAACGTTCTCTGATGCT 20
|||||
Db 1 TCCTAACGTTCTCTGATGCT 20

RESULT 2

US-08-738-652-45
; Sequence 45, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07

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; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-45

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
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Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 3
US-09-286-098-49
; Sequence 49, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; EARLIER FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
   |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 4
US-08-960-774-3
; Sequence 3, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-960-774-3

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
   |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 5
US-09-325-193A-43
; Sequence 43, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-43

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
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Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 6
US-09-191-170-44
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; Sequence 44, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 7
US-09-296-477-18
; Sequence 18, Application US/09296477A
; Patent No. 6589940
; GENERAL INFORMATION:
; APPLICANT: RAZ, E.
; APPLICANT: SCHWARTZ, D.
; APPLICANT: ROMAN, M.
; APPLICANT: DINA, D.
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGONUCLEOTIDES,
; FILE REFERENCE: 377882000420
; CURRENT APPLICATION NUMBER: US/09/296,477A
; CURRENT FILING DATE: 1999-04-22
; EARLIER APPLICATION NUMBER: 09/092,329
; EARLIER FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: 60/048,793
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-09-296-477-18

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 8
US-09-337-619-3
; Sequence 3, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 9
US-09-954-987B-77
; Sequence 77, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-77

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
|||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 10

US-09-672-126B-77
; Sequence 77, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide

US-09-672-126B-77

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
|||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 11

US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962836
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636e1 Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.

US-09-133-774-11

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
|||||

Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 12

US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-25

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
|||||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 13

US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230e1 Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11
Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20
|||||

RESULT 14
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25
Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20
|||||

RESULT 15
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004, HCL

; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20
|||||

Search completed: April 17, 2006, 18:04:52
Job time : 56.375 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:32:13 ; Search time 366.375 Seconds
(without alignments)
451.416 Million cell updates/sec

Title: US-09-818-918-45

Perfect score: 20

Sequence: 1 tccataagcttcctgatgct 20

Scoring table:

IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-09-824-468-49
2	20	100.0	20	3	US-09-800-266A-43
3	20	100.0	20	3	US-09-895-007A-43
4	20	100.0	20	3	US-09-920-313-43
5	20	100.0	20	3	US-09-888-326-545
6	20	100.0	20	3	US-09-818-918-3
7	20	100.0	20	3	US-09-818-918-45
8	20	100.0	20	3	US-09-931-583-42
9	20	100.0	20	3	US-09-776-479-777
10	20	100.0	20	3	US-09-954-987B-77
11	20	100.0	20	3	US-09-874-991C-44
12	20	100.0	20	3	US-09-874-991C-110
13	20	100.0	20	3	US-09-874-991C-133
14	20	100.0	20	3	US-09-874-991C-161
15	20	100.0	20	3	US-09-874-991C-182
16	20	100.0	20	3	US-09-874-991C-207
17	20	100.0	20	3	US-09-776-479-777
18	20	100.0	20	5	US-10-023-909A-43
19	20	100.0	20	5	US-10-112-653-750
20	20	100.0	20	5	US-10-017-995-777
21	20	100.0	20	5	US-10-300-247-43
22	20	100.0	20	5	US-10-161-229-44
23	20	100.0	20	6	US-10-187-264A-3

24	20	100.0	20	6	US-10-265-072-78	Sequence 78, Appl
25	20	100.0	20	6	US-10-306-522-3	Sequence 3, Appl
26	20	100.0	20	6	US-10-314-578-777	Sequence 777, App
27	20	100.0	20	6	US-10-434-696-43	Sequence 43, Appl
28	20	100.0	20	7	US-10-373-381-36	Sequence 36, Appl
29	20	100.0	20	7	US-10-713-493-3	Sequence 3, Appl
30	20	100.0	20	7	US-10-627-731-3	Sequence 3, Appl
31	20	100.0	20	7	US-10-666-733-43	Sequence 43, Appl
32	20	100.0	20	7	US-10-743-625-3	Sequence 3, Appl
33	20	100.0	20	7	US-10-743-625-45	Sequence 45, Appl
34	20	100.0	20	7	US-10-679-710-3	Sequence 3, Appl
35	20	100.0	20	7	US-10-679-710-45	Sequence 45, Appl
36	20	100.0	20	7	US-10-769-282-3	Sequence 3, Appl
37	20	100.0	20	7	US-10-769-282-45	Sequence 45, Appl
38	20	100.0	20	8	US-10-817-165-3	Sequence 3, Appl
39	20	100.0	20	8	US-10-817-165-45	Sequence 45, Appl
40	20	100.0	20	8	US-10-877-407-33	Sequence 33, Appl
41	20	100.0	20	8	US-10-877-369-36	Sequence 36, Appl
42	20	100.0	20	8	US-10-816-220-43	Sequence 43, Appl
43	20	100.0	20	8	US-10-831-778-777	Sequence 777, App
44	20	100.0	20	8	US-10-876-892-36	Sequence 36, Appl
45	20	100.0	20	8	US-10-876-965-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-49
; Sequence 49, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0

Oy 1 TCCATAAGCTTCCTGATGCT 20
Db 1 TCCATAAGCTTCCTGATGCT 20

RESULT 2
US-09-800-266A-43
; Sequence 43, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/NAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A

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; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-43

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 3
US-09-895-007A-43
; Sequence 43, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-43

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 4
US-09-920-313-43
; Sequence 43, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-43

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 5
US-09-888-326-545
; Sequence 545, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 545
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-545

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 6
US-09-818-918-3
; Sequence 3, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Steinberg, Alfred D.
; APPLICANT: Klinman, Dennis
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCGATGCT 20
|||||
Db 1 TCCATAACGTTCTCGATGCT 20

RESULT 7

US-09-818-918-45
; Sequence 45, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-45

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCGATGCT 20
|||||
Db 1 TCCATAACGTTCTCGATGCT 20

RESULT 8

US-09-931-583-42
; Sequence 42, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCGATGCT 20
|||||
Db 1 TCCATAACGTTCTCGATGCT 20

RESULT 9

US-09-776-479-777
; Sequence 777, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 777
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-777

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCGATGCT 20
|||||
Db 1 TCCATAACGTTCTCGATGCT 20

RESULT 10

US-09-954-987B-77
; Sequence 77, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22

; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-77

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
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Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 11
US-09-874-991C-44
; Sequence 44, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
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Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 12
US-09-874-991C-110
; Sequence 110, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-110

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-110

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 13
US-09-874-991C-133
; Sequence 133, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-133

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 14
US-09-874-991C-161
; Sequence 161, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 161
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-161

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATAACGTTCTCTGATGCT 20
|||||

RESULT 15

US-09-874-991C-182
; Sequence 182, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 182
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-182

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATAACGTTCTCTGATGCT 20
|||||

Search completed: April 17, 2006, 20:43:35
Job time : 366.5 secs

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OM nucleic - nucleic search, using sw model

Run on: April 17, 2006, 17:33:01 ; Search time 425 Seconds
(without alignments)
189.545 Million cell updates/sec

Title: US-09-818-918-45

Perfect score: 20

Sequence: 1 tccataagcttcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA New:*

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3: /SIDSS/ptodata/1/pubpna/US07_NEW_PUB.seq:
4: /SIDSS/ptodata/1/pubpna/PCT_NEW_PUB.seq:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	8	US-10-619-279-3
2	20	100.0	20	8	US-10-435-656-3
3	20	100.0	20	8	US-10-435-656-45
4	20	100.0	20	10	US-10-382-822-3
5	20	100.0	20	14	US-11-127-654-750
6	20	100.0	20	14	US-11-134-918-3
7	20	100.0	20	14	US-11-134-918-45
8	20	100.0	20	14	US-11-031-460-3
9	20	100.0	20	14	US-11-031-460-45
10	20	100.0	20	14	US-11-067-587-3
11	20	100.0	20	14	US-11-067-587-45
12	20	100.0	20	14	US-11-099-683-65
13	20	100.0	20	14	US-11-099-683-66
14	19	95.0	20	8	US-10-497-591A-100
15	18.4	92.0	20	8	US-10-497-591A-12
16	18.4	92.0	20	8	US-10-469-561-9
17	18.4	92.0	20	8	US-10-619-279-7
18	18.4	92.0	20	8	US-10-435-656-7

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19 18.4 92.0 20 8 US-10-435-656-35
20 18.4 92.0 20 8 US-10-435-656-44
21 18.4 92.0 20 8 US-10-435-656-54
22 18.4 92.0 20 10 US-10-382-822-7
23 18.4 92.0 20 12 US-11-127-797-35
24 18.4 92.0 20 12 US-11-127-803-25
25 18.4 92.0 20 12 US-11-128-127-25
26 18.4 92.0 20 14 US-11-025-858-2
27 18.4 92.0 20 14 US-11-025-858-6
28 18.4 92.0 20 14 US-11-127-654-10
29 18.4 92.0 20 14 US-11-127-654-11
30 18.4 92.0 20 14 US-11-127-654-731
31 18.4 92.0 20 14 US-11-127-654-779
32 18.4 92.0 20 14 US-11-127-654-836
33 18.4 92.0 20 14 US-11-134-918-7
34 18.4 92.0 20 14 US-11-134-918-35
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41 18.4 92.0 20 14 US-11-067-587-7
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45 18.4 92.0 20 14 US-11-099-683-75

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ALIGNMENTS

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RESULT 1
US-10-619-279-3
; Sequence 3, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-3

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Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20

Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 2

US-10-435-656-3

; Sequence 3, Application US/10435656

; Publication No. US20050277604A1

GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-3

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 3
US-10-435-656-45
; Sequence 45, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-45

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 4

US-10-382-822-3
; Sequence 3, Application US/10382822
; Publication No. US20060058251A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.700602.US
; CURRENT APPLICATION NUMBER: US/10/382,822
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-382-822-3

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 5
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; Sequence 750, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.700600US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 750
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-750

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||

Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 6

US-11-134-918-3
; Sequence 3, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Steinberg, Alfred D.
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-3

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 7

US-11-134-918-45
; Sequence 45, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Steinberg, Alfred D.
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-45

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 8

US-11-031-460-3
; Sequence 3, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-3

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 9

US-11-031-460-45
; Sequence 45, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0

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; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-45

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 10
US-11-067-587-3
; Sequence 3, Application US/11067587
; Publication No. US2006003955A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-3

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 11
US-11-067-587-45
; Sequence 45, Application US/11067587
; Publication No. US2006003955A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-45

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 12
US-11-099-683-65
; Sequence 65, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-65

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 13
US-11-099-683-66
; Sequence 66, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66
; LENGTH: 20
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; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-66

Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.44; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 14
US-10-497-591A-100
; Sequence 100, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (9)
; OTHER INFORMATION: n = inosine or uracil
US-10-497-591A-100

Query Match      95.0%; Score 19; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 1.6; 1; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 15
US-10-497-591A-12
; Sequence 12, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07

; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (9)
; OTHER INFORMATION: n = inosine or uracil
US-10-497-591A-12

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.3; 1; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

Search completed: April 17, 2006, 18:51:10
Job time : 426.125 secs
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